

The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3519
L. CXLVIII

AUGUST 2, 1947

Annual Subscription (with
Diary) 30/- Single Copies 1/-

WRIGHT'S

Coal Tar Soap

IDEAL FOR

TOILET AND NURSERY

★

WRIGHT, LAYMAN & UMNEY, LIMITED
SOUTHWARK · LONDON · S.E.1 · HOP 4021 (10 lines)



a new Parke-Davis product

'TAKA-BEXIN' CAPSULES

This combination of the important members of the vitamin B complex with vitamin C and the powerful starch-converting ferment, Taka-Diastase, is of value for middle-aged and elderly people who often need assistance in digesting starchy food and whose intake of vitamins is low. In convalescence also, when digestion and appetite are impaired and vitamin deficiency is present, 'Taka-Bexin' will prove useful.

Six 'Taka-Bexin' Capsules contain sufficient Taka-Diastase to liquefy the amount of starch in approximately $1\frac{1}{2}$ lb. of potatoes or $\frac{1}{2}$ lb. of bread.

**IN BOTTLES
OF 50 CAPSULES**

List Price 11/3 each

**M. R. P.
(including Pur. Tax)
12/6 each**

FORMULA

Each capsule contains:-

Taka-Diastase	.	.	.	.	.	.	.	1 gr
Vitamin B ₁ (Aneurine Hydrochloride)	.	.	.	.	.	.	.	1 mgm
Vitamin B ₂ (Riboflavin)	.	.	.	.	.	.	.	1 mgm
Vitamin B ₆ (Pyridoxine Hydrochloride)	.	.	.	.	.	.	.	0.5 mgm
Pantothenic Acid (as the Calcium Salt)	.	.	.	.	.	.	.	0.15 mgm
Nicotinamide	.	.	.	.	.	.	.	6 mgm
Vitamin C (Ascorbic Acid)	.	.	.	.	.	.	.	15 mgm

PARKE, DAVIS & COMPANY
50, BEAK STREET, LONDON, W. 1.
LABORATORIES: HOUNSLOW, MIDDLESEX. INC. U.S.A. LIABILITY LTD

Show 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's line



PLEASE NOTE

20/- Pack

(one bottle free)

AGAIN AVAILABLE

see prices below

A PRODUCT OF BIOCHEMICAL RESEARCH. PROMOTES NORMAL, HEALTHY CIRCULATION

'ELASTO' Advertising is Nation-wide and Consistent. An ever-increasing demand for this product is being created at your very door; a slight effort on your part will bring this new and profitable business to your counter. A showcard or a few 'Elasto' cartons displayed in your window will bring most gratifying results. You can recommend 'Elasto' with confidence for all circulatory disorders including Varicose Veins, Bad Leg, Skin Troubles, Rheumatism and poor General Health. A tablet Remedy, easy to handle and reliable.

Recommend 'Elasto'—and a satisfied customer will recommend You!

★ **RETAIL (Including Tax)**

PATA

WHOLESALE (Including Tax)

5/- per bottle (one month's supply)

36/- per dozen

20/- five bottles (Including one free)

168/- per dozen

The NEW ERA TREATMENT CO., LTD.
CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1



BROMIDES

SODIUM POTASSIUM
AND ALL SALTS

MANUFACTURED BY

WHIFFEN & SONS, LTD.

**ALDRSGATE CHEMICAL WORKS
FULHAM, LONDON, S.W.6**

TELEPHONE :
RENOWN 3416 Private Branch Exchange

TELEGRAMS :
WHIFFEN, LONDON

Ample supplies available of

NEO-HEPATEX

HEPATEX-ORAL

EVANS

HEPAMINO

HEPATEX-T

*The original
proteolysed liver
preparations*

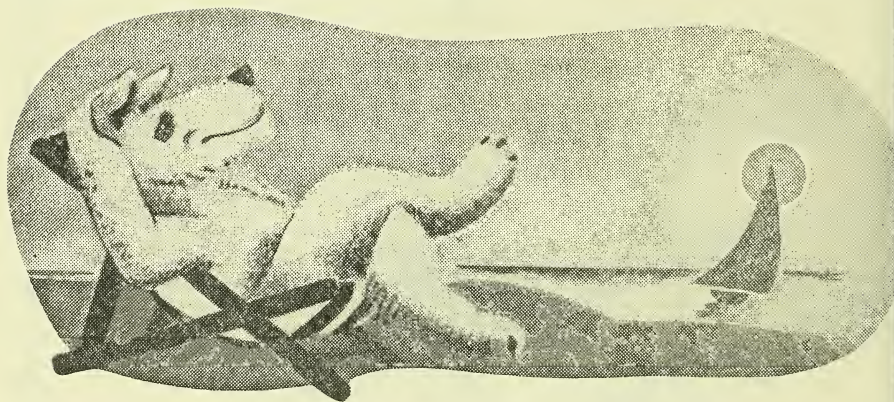
Made in England by

EVANS MEDICAL SUPPLIES LTD

Liverpool and London

OVERSEAS COMPANIES AND BRANCHES: AUSTRALIA, BRAZIL,
CHINA, EIRE, INDIA, MALAYA, PALESTINE, SOUTH AFRICA

Hot Dog



OUR FRIEND above obviously likes his August good and hot. But hundreds of thousands of dogs don't. During the next warm spell they'll be scratching themselves unhappily, lying about on any cold floor they can find, and saying no to their food. They'll be showing clear signs of overheated blood aggravated by domesticated feeding.

If their owners ask your advice, you've only to suggest Bob Martin's Condition Powder Tablets, though it's

a good idea to send them away with copy of 'Your Dog' by Bob Martin as well.

Yes, there'll be a good many convert to regular conditioning this Summer and a good many extra demands on your stock.

Don't forget to be ready for these demands. Don't forget that display outdoors, hanging cards and posters pay the way. And don't forget that our display material isn't inexhaustible: so if you need any, please apply soon

BOB MARTIN

BOB MARTIN LTD. SOUTHPORT LANCs.

PATA.

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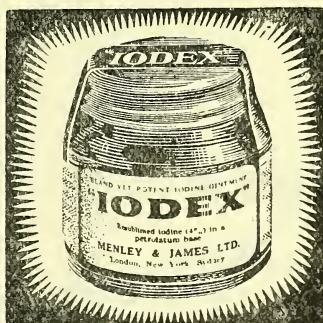
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The BLAND, SOOTHING Iodine Ointment

There is no form of iodine more bland than 'Iodex'. Even on open wounds and sensitive surfaces it is soothing, inflammation-reducing, and resolvent. Its wide field of usefulness has been recognised by doctors for over thirty years, and it is regularly prescribed for such conditions as enlarged glands, joint and muscle pains, minor injuries, and certain parasitic skin affections.



'IODEX'

IODINE OINTMENT

MENLEY & JAMES LTD.

123 Coldharbour Lane, London, S.E.5.

1-OZ. JARS

Trade Price

18 9 per dozen, plus 3 1½ tax

Retail Price

2 6 each, inclusive of tax

Supplied also in 4-oz. Jars

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B.D.H. *Blue Triangle* SERIES

CHEMICAL FOOD is only one of the B.D.H. 'Blue Triangle' series of packed pharmaceutical products.

This series gives the private pharmacist a range of more than thirty 'key preparations'—everyday essentials, mainstays of his trade—which he can sell with confidence and credit.

Every package carries the name 'B.D.H.' as guarantee of purity and quality, with the pharmacist's name and address printed on a separate back label.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

BTr/T/



Get another 'Ucal'
product now available
in limited supplies.



DOPO-PLUS
D.D.T. / GEIGY

KILLS FLIES, FLEAS, BUGS, ETC.

DIRECTIONS
To destroy quickly Flies, Fleas, Bugs,
Beetles, Moths, Cockroaches, Ants,
Crickets, Wasps, and similar Pests,
simply sprinkle freely in the infected places.

Fleas and Mosquitos.
A little Powder sprinkled on the
window sill or on the fire will
keep these pests away.

PACKED BY
UNITED CHEMISTS ASSOCIATION LTD.
CHELTENHAM



SAMARITAN

Ointments

are again freely available in a wide range of titles including Chilblain, Lanoline, Wintergreen, Zinc and other B.P. and B.P.C. formulæ. Several exclusive prescriptions are also included in the series.

Prices and [Samples on application.

TR.132

THORNTON & ROSS
Manufacturing Chemists
 LINTHWAITE · HUDDERSFIELD.

ARE YOU★ THE CHEMIST WHO LOST THIS SALE?

The makers of 'Curicones' have received this letter:

Dear Sirs,

I shall be obliged if you will inform me whether your usual offer of large packs of Curicones at 24/- is withdrawn, as on enquiring for one of these yesterday from* I was told the offer was no longer in operation and I could only have the usual single bottle at 5/-.

As I have been a regular user of Curicones for a number of years with beneficial results and have hitherto been able to secure one of the larger packs periodically, about twice a year when my periodic attacks have been recurring, I was surprised at this reply, when I see the actual advertisement of the large pack is still on the single bottle I received yesterday.

I am, yours respectfully,

(The original of the above letter may be inspected at our office)
 You make **NEARLY 5 TIMES THE PROFIT** for one-sixth of the trouble by supplying the 'CURICONES' 24/- Pack. **YOU ARE LOSING SALES IF YOU ARE NOT STOCKING THE 24/- SIZE 'CURICONES.'**

The 24/- pack, the **FULL Course**, contains 6 times the quantity of the 5/- size, and shows you nearly 5 times the profit for one-sixth of the trouble. Your ability to supply the 24/- size ensures that the customer purchases the full course of treatment from you at one time; your turnover is quicker; you cement good-will because obstinate cases of Rheumatic Complaints yield to the full course of 'Curicones.'

Order a ½ doz. from your wholesaler today



P.A.T.A.

**LARGE SIZE
24/-**

CURICONES

Remember 'Curicones' is a P.A.T.A. Line showing 8 1/2% profit. Nationally advertised and recommended by the medical profession
 Showcard sent on request

**FOR THE RELIEF OF
RHEUMATISM &
KINDRED TROUBLES**

STEPHEN MATTHEWS & Co. Ltd.
 191/2 FARRINGTON ST., LONDON E.C.

Efficient Salicylate Medication

'ALASIL' is an analgesic, antipyretic and sedative of established value. It provides the physician with an efficient form of salicylate medication which combines the advantages of high tolerability and greater freedom from the possibility of unpleasant gastrointestinal sequelæ.

This tolerability is due to the fact that 'Alasil' is a combination of acetylsalicylic acid and Dibasic Calcium Phosphate together with 'Alocol' (Colloidal Aluminium Hydroxide), an effective gastric sedative and antacid.

For these reasons 'Alasil' can be administered with confidence—over prolonged periods if necessary—to children, adults, the aged, and patients with finely balanced digestive capacities.

Alasil

TABLETS

Aspirin with a difference

Retail Prices: Bottles 1/5 and 2/10

Including Purchase Tax.

Trade Prices: 11/3 and 22/6

Plus Purchase Tax

On the **PATA**

A. WANDER LTD.
5 and 7 Albert Hall
Mansions, London,
S.W.7

M323

A PRODUCT OF THE 'OVALTINE' RESEARCH LABORATORIES



AYRTONS *for* PENICILLIN CREAM B.P.

No. 1 MAKING SET (The Original) ANHYDROUS comprises 6 pots Sterile base (Anhydrous); 100 c.c Chlorocresol Solution (0.2%) in sterile water.

The contents of the smallest package of Penicillin Sodium or Calcium Salts (100,000 units) is dissolved in the Chlorocresol Solution, slightly warmed (not exceeding 60° C.) One-sixth part of this is introduced to each of the six pots of sterile anhydrous base at same temperature. Each pot must be opened and closed momentarily for the process, shaken vigorously and cooled rapidly. The Penicillin Cream B.P. must be used within seven days.

Per set (to make 6 pots) ... 6/- Penicillin (100,000 units) ... 1/4

No. 2 MAKING SET. HYDROUS comprises 4 jars 23 grammes hydrous base, 4 ampoules 2 c.c. Chlorocresol Solution 0.1% and one tube of 4 tablets each 12500 units Penicillin (Calcium Salts).

One tablet is dissolved in one ampoule and mixed thoroughly into one jar of base.

Per set (to make 4 pots) ... 8/-

No. 3 DAILY POSTAL SERVICE. Penicillin Cream B.P. freshly made and posted immediately. Per ounce, post paid ... 2/-

PENICILLIN SOLUTION TABLETS. Each tablet 12500 units (Calcium Salts).

Tubes of Eight ... each 2/7

PENICILLIN OINTMENT B.P. 1 oz. jars...per doz. 16/- 2 oz. jars... per doz. 30/-

PENICILLIN EYE OINTMENT. 1 drachm tubes ... per doz. 10/-

PENICILLIN LOZENGES B.P. 20's ... per doz. 12/-

AYRTON SAUNDERS & CO. LTD. LIVERPOOL

Penicillin Therapy by Inhalation

For the satisfactory atomisation of PENICILLIN solution, in any strength, no better instrument will be found than the DRITAX UNIVERSAL INHALER



Advantages :-

1. All glass, no loose parts.
2. Very easily and quickly cleaned.
3. Sterilised by boiling or autoclave.
4. Atomises full dose ordered.
5. Supplied with Face Mask and Nosepiece.
6. Price 27/6 complete, retail, less 38½% trade.



RIDWELL PRODUCTS LIMITED
AXTELL HOUSE, WARWICK ST., LONDON, W-1

P.A.T.A.



WHAT'S A FOOT?

More and more customers these days are suffering from painful feet

Long standing in queues and often unsuitable shoes have aggravated foot troubles for many people and caused others to suffer for the first time. The demand for relief from painful feet is therefore a growing one. Many chemists are satisfying that demand profitably by displaying 'Freezone' Foot Compound and 'Freezone' Corn Remover. They find these lines popular because they really do give quick relief. The popularity increases, too, because 'Freezone' is the kind of line that one sufferer will recommend to another. Recommend 'Freezone' with confidence — your customers will thank you.

Don't forget that foot troubles are not confined to older folk. You'll be surprised at the number of young people who will buy 'Freezone' from you.

Additional display discounts with the inclusion of other I.C.C. lines:—£5, 10%; £10, 12½%. Carriage paid on all orders.

A collodion preparation that relieves corn pain quickly and enables the corn to be removed after a few days' treatment. Complete with glass applicator and two corn rings, it retails at 1/8. Trade price 13/6 per doz. P.T. 2/3.



Antiseptic, alkaline, absorbent and anti-inflammatory. It gives quick relief from soreness, chafing, excessive perspiration and allied foot troubles. In sprinkler container it is priced at 2/- retail. Trade price 15/9. P.T. 22/7½. Freezone Corn Rings retail at 4½d. Trade price 2/7d. per doz. P.T. 10½d.

INTERNATIONAL CHEMICAL CO. LTD., Chenies Street, London, W.C.1

Xmas Presentation

ORDER NOW

Ensure your Xmas deliveries by placing your order NOW! We will co-operate by reserving stock against firm orders.



W. SUTTON & CO. DRUGGISTS SUNDRIES LONDON LIMITED

Established 1660

Horseshoe Lane, Enfield, Middlesex

Tel: Enfield 4747 (10 lines)

Grams: Vinaigrette, Enfield

Diana Marsh

SOFT LAMBSWOOL PUFFS

Packed in Acetate Containers of attractive design

915.	4 in.	Powder Bowl	...	...	33/- per doz.
916.	4½ in.	" "	...	...	47/- "
917.	5½ in.	" "	...	...	67/6 "

Plus 100% Purchase Tax

50 Years' Test—

has proved the value

of



GET YOUR CUSTOMER TO TRY IT!

Retail price (including tax) 1/8

(Wholesale terms 12/- doz. Tax 2/- doz.)

LOFTHOUSE & SALTMER, LIMITED, HULL

AN INSECT REPELLENT CREAM

OF THE MOST MODERN TYPE IN
ATTRACTIVE

TUBES, CARTONS AND
DISPLAY OUTERS

A pack which was PROVED last season as one that fills public demand for handiness on all occasions.

RETAIL 1/9 including Purchase Tax at 16½%

C.F. Profits plus extra discounts on 3, 6 and 12 dozen lots.

Telephone: BYRON 1440/1800

Telegrams: Damancy Harrow



DAMANCY & CO. LTD HARROW MIDDLESEX.
ESTABLISHED 1890



PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse Grosvenor St. Ashton - Lyne Telephone 2816 (2 lines)

THE CHEMISTS' PRINTERS

FOR OVER SIXTY YEARS

THOMAS WAIDE & SONS, LTD.
KIRKSTALL HILL
LEEDS



Shape of THINGS TO COME

PILLODINES

we venture to prophesy, have bright and promising future ahead of them. These tiny silver coated pillules of specially-treated iodine have striking prophylactic and therapeutic qualities that tackle the common cold in an extremely efficacious and unusual manner. *When dissolved slowly on the tongue they instantly mobilise and bring into action the body's defence mechanism.* We are confident that once introduced this new form of cold immunisation the public will be swift to recognise its virtues. Consequently September will see the launch of Pillodines, commencing with a series of Chemists' window displays featuring the complete 30-day treatment in the new 3 one-at-a-time containers. This will be the fore-runner of a vigorous trade and national Press advertising campaign.

WATFORD CHEMICAL CO. LTD

Telephone: WELbeck 0264/8 30 BAKER STREET, LONDON, W.1 Telegrams: Watchempro', Wesdo, Lond

W. H. JONES & CO. (London) Ltd.

BUYERS, CONFIRMERS & SHIPPERS

BARNET, HERTS, ENGLAND.

ORDERS WITH LICENCE NOS. & YOUR BANK'S NAME INVITED

GROUND

DRIED YEAST

MIDGLEY & PARKINSON, LTD.

WARREN WORKS, PUDSEY, LEEDS



EOSOL
TETRAHYDROFURFURYL
ACETATE

*the new
lipstick
solvent*

CRODA LTD SNAITH. GOOLE. YOR.

MILLAMALT

The **VITAMIN MALT FOOD**

Sole Manufacturers With Vitamins (A. 6,500 I.U., D. 400 I.U. per fl. oz.)

JEFFREYS, MILLER & Co. Ltd. Leyland Mills, WIGAN. London Dept.: 19 Brookside Rd., N

NASTANT

TELEGRAMS: "WINTERS," SOUTHEND.
TEL.: MARINE 68240.

INHALANT

PRICE & SAMPLE SENT ON REQUEST.

DISTRIBUTORS:
EDWARD C. BRIGHT,
60, BROADWAY,
COVENTRY, WARWICK

NOSTAX, LTD.
OFFICE & LABORATORIES:
5, BOURNEMOUTH PARK RD.
SOUTHEND-ON-SEA.

Something out of the Ordinary!



4 oz. bottle 2/6 inc. tax.
Subject to 33½ discount.

This recent development in calamine therapy incorporates the unsaturated fatty acids as contained in ESōBAN OINTMENT and has many advantages over ordinary calamine preparations.

ESōBAN
Cream OF CALAMINE

WINDOW DISPLAYS

throughout August and September will show you good profits and link up with advertisements appearing in the National Press. Showcards available on request.



Supplied through all C.F. Wholesalers **PATA**

A Product of

SOUTHON LABORATORIES, LTD., LONDON, S.W.15.



Used and recommended by MATERNITY HOSPITALS DOCTORS, NURSES and WELFARE CENTRES



The Demand is in the DESIGN

Extensive National Advertising in the Press and Women's Magazines is creating national demand for the "Modern" Teat. Used and recommended by Nursing and Medical Authorities for its new anti-colic design—nearest to natural feeding. Supply position easier. Stock up now. Obtainable from wholesalers only. Fixed Retail Selling Price 6d. each.

The
"MODERN"
ANTI-COLIC **TEAT**

PATA

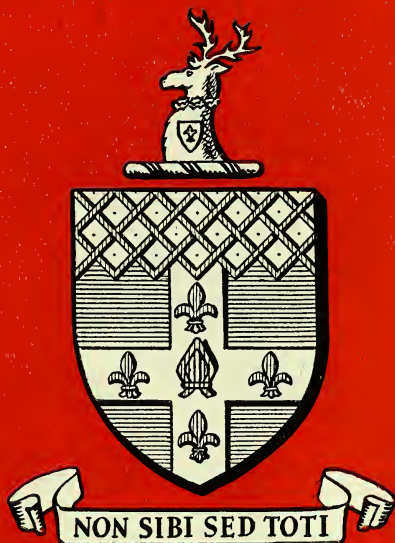
THE CANNON RUBBER MANUFACTURERS LTD, LONDON N.1

**SOAP
SHAVING STICK
OINTMENT
TALCUM**



*-for Sensitive
Skins!*

LONDON'S COATS OF ARMS



Hampstead

The Coat of Arms of the Borough combine and adapt certain Coats of Arms of families who have played an important part in the history of Hampstead. The Mitre in the centre of the Cross is taken from the Arms of Westminster Abbey, as in the year 986 King Ethelred granted the Manor of Hampstead to the Abbey.

Hampstead, once the "homestead" of enterprising farmers, where good pasturage was to be found in this pleasant situation, has now become a large residential area of London, with the wide open spaces of the Heath as part of London's play-ground.

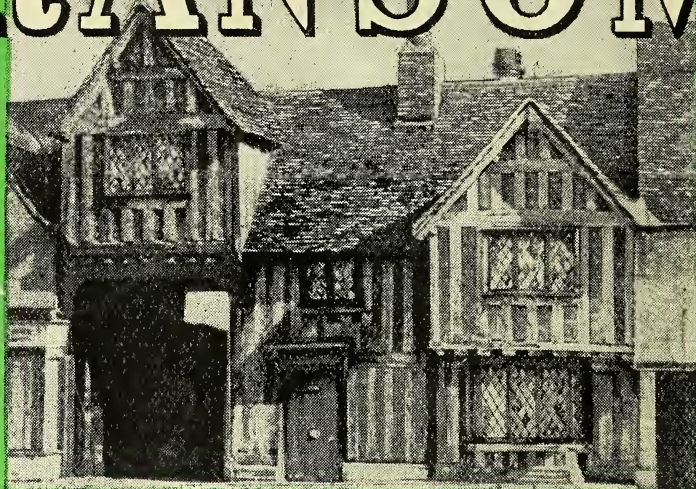
Many of the best known names in literature, science and art have been connected with this district. Several of its ancient Inns have a world-wide notoriety. To mention but a few, there are "Spaniards" made famous by Dickens; "Jack Straw's Castle" on the crest of the hill and the old "Bull & Bush" made famous in the music-hall song.

The Motto translated reads "Not for oneself but for all."

DRUG MERCHANTS AND MANUFACTURING CHEMISTS
POTTER & CLARKE LTD
London & Manchester.

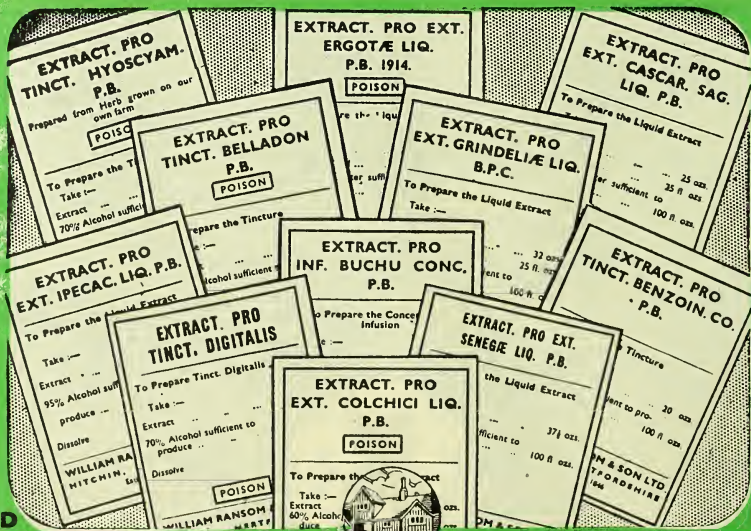


RANSOM



14th Century Gate-house to Ransom's Factory

Drug growing for over 100 years



ESTABLISHED

1846

WILLIAM RANSOM & SON LTD.

*Growers of medicinal plants for over a century
Hitchin, Hertfordshire, England*



INTRAVENOUS ANAESTHESIA with 'KEMITHAL' SODIUM

'Kemithal' Sodium (sodium cyclohexenyl-allyl-thiobarbiturate) is a new ultra-short-acting intravenous anaesthetic, evolved in the I.C.I. Research Laboratories.

In extensive clinical trials 'Kemithal' Sodium has proved to be a highly efficient and satisfactory agent for basal hypnosis and for surgical anaesthesia of short or prolonged duration. It has the advantage of a relatively high therapeutic quotient, it achieves anaesthesia without giving rise to undue respiratory depression and a number of workers have found that with 'Kemithal' Sodium the occurrence of laryngeal spasm is less frequent than with other intravenous barbiturates.

'Kemithal' Sodium is issued in ampoules of 1 gramme and 2 grammes in boxes of 5 and 25 together with sterile distilled water in ampoules of 10 c.c. and 20 c.c. respectively; ampoules of 5 grammes 'Kemithal' Sodium are also available in boxes of 5 and 25.

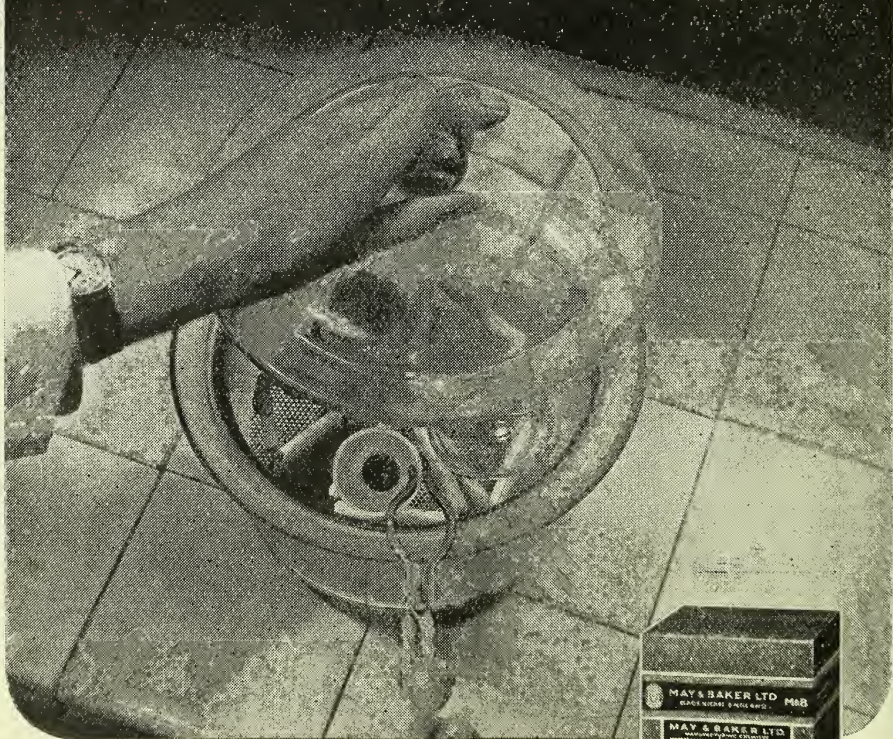


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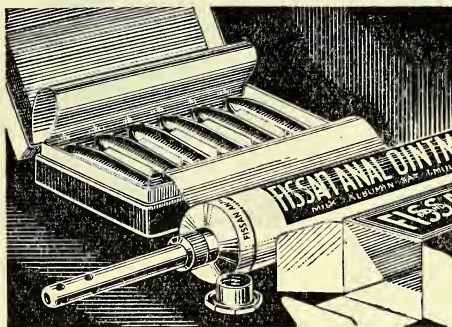
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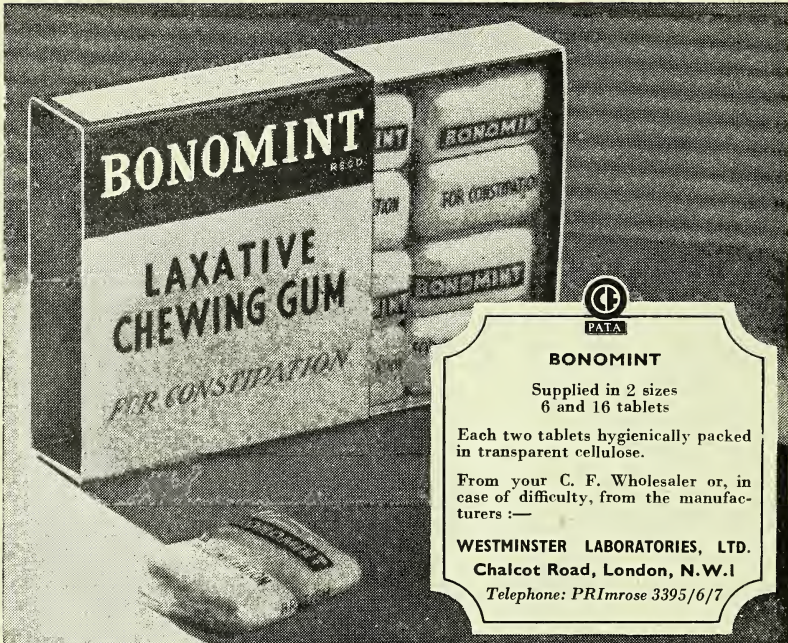


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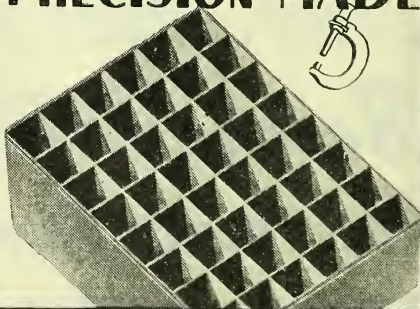
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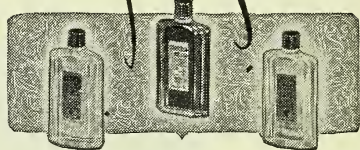
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NEWS OF THE WEEK

Methyl Bromide Fumigation.—The Home Office has issued a pamphlet "Fumigation with Methyl Bromide" (H.M. Stationery Office, price twopence) recommending precautionary measures to be observed when using methyl bromide as a fumigating agent, and urging that precautions should be at least as stringent as those normally required for hydrogen cyanide.

Quinine Control Discontinued.—Under an Order (S.R. & O., 1947, No. 1553) which came into effect on July 28, the control exercised by the Minister of Supply since August 13, 1942, over the supply of cinchona, cinchona products and synthetic substitutes for cinchona products in Great Britain, has been discontinued. The export of quinine and other cinchona alkaloids and their salts, except cinchonidine and its salts, continues to be controlled by the Board of Trade (see *C. & D.*, June 7, p. 642).

Final Session of Chemical Congress.—The closing session of the eleventh International Congress of Pure and Applied Chemistry (see *C. & D.*, July 26, p. 111) took place in London on July 24, Lord Lever-

hulme (president) in the chair. Sir Robert Robinson said it would take perhaps two years before the scientific papers could be subjected to what he described as "a process of chromatography," but the final chromatogram would enable scientists to select the bonds of greatest value, and to understand their relation to each other. The fourteenth conference of the International Union of Chemistry was formally closed by Dr. M. T. Bogert (president) who said the delegates had found a universal solvent for problems which had seemed insoluble. The thanks of the delegates to the organisers of the Congress were expressed by Drs. P. E. Verkade, Holland (for European delegates), and W. A. Noyes (for delegates from the American continent). Earlier in the week a party of delegates visited the works and laboratories of The British Drug Houses, Ltd., Poole, Dorset; others were entertained at receptions given by the Royal Institute of Chemistry and by the Worshipful Company of Salters.

Incidence of Infantile Paralysis.—The number of cases of infantile paralysis reported in England and Wales during the

week ended July 19 was 177, the highest figure recorded since regular statistics were first compiled in 1912, and sixty-seven more than in the previous week. A statement issued by the Ministry of Health on July 28 points out that, on an average, 600-800 cases (about 1-50,000 of the population) are reported each year, but that in some years the incidence is higher. In 1926, 1,159 cases were recorded, and in 1938 nearly 1,500 cases; in both years there was a sudden increase during July. This year the increase started in June, and from January 1 to July 19, 722 cases were reported, compared with 172 cases in the same period of 1938. Although the figures are high for Great Britain, the Ministry points out that in the United States, where epidemics occur on a scale unknown in Britain, the chances of infection, even in dense urban areas, are barely 1 in 1,000, and second cases in one family are rare. Paralysis, even of a temporary nature, does not follow infection in the great majority of cases. Except when local medical officers of health make known any special precautions which they consider necessary, children should be allowed to follow their usual routine, but medical advice should be sought if a child suddenly develops feverish or other symptoms that do not seem to point to any readily recognisable ailment. The Ministry urge that parents seeking advice should be reminded that protecting food from flies, and boiling all non-pasteurised milk, are useful precautions in helping to combat infantile paralysis and other summer diseases.

LOCAL NEWS

Outing to Margate.—The employees of Meggeson & Co., Ltd., Llewellyn Street, London, S.E.16, travelled by coach to Margate, on July 26, as guests of the directors. Luncheon was served at Canterbury on the outward journey.

Merseyside Federation Suggested.—The Wallasey Pharmacists' Association has put forward a proposal for an area Joint Committee in the hope that it will lead to the formation of a Merseyside or even of a North-western Pharmaceutical Federation.

Cricket: Portsmouth v. Southampton.—A further match in a series for the Alderwick cricket trophy was played between Portsmouth and Southampton chemists at Portsmouth on July 23. Southampton's score of 59 all out was overtaken by Portsmouth for the loss of eight wickets.

West Kent Annual Meeting.—At the annual meeting of the West Kent Branch of the Pharmaceutical Society on July 7 it was decided that the committee should consist of twelve members, three of whom should retire in rotation each year and not be eligible for re-election until the next subsequent annual meeting. The following were elected: *President*, Mr. A. G. Mack; *Vice-president*, Mrs. N. E. D. Gomer; *Secretary*, Mr. Stanley J. Hamer, 172 Upper Elmers End Road, Beckenham, Kent; *Deputy Secretary*, Mr. W. W. Pring; *Committee*, The Misses G. D. Brooks and A. Thorpe, and Messrs. John Chapman, F. Coupland, G. E. Harrington, P. H. Hulbert, J. D. Millar, L. C. Mole, Eric Neal, L. S. Short, W. T. Stoyale, and J. T. Terry.

Combined Pharmaceutical Committee Formed.—At a meeting of members of the Pharmaceutical Committees of Stirling and Falkirk burghs, and the counties of Stirling and Clackmannan, held in Stirling on July 16, the following were elected to form a Pharmaceutical Committee to cover the whole area under the National Health Service Act (Scotland), 1947: *Chairman*, Mr. R. Gordon Drummond, Falkirk; *Vice-chairman*, Mr. A. M. Wood, Grangemouth; *Secretary*, Mr. J. T. Welsh, Larbert; with Miss F. I. Baxter and Messrs. G. Graham, Falkirk, W. Carnegie, Stirling, D. McGregor, Stirling, A. K. Patrick, Falkirk, J. A. Rothnie, Falkirk, R. Thomson, Denny, and H. D. Fyfe, Alloa. Messrs. R. Gordon Drummond and A. M. Wood were nominated to serve on the Executive Council to be set up under the Act.

Brighton N.P.U.—A special meeting of the Brighton and Hove Branch of the National Pharmaceutical Union was held on July 9. Mr. Donald Hudson was elected to the chair, and there was an attendance of thirty-six. A discussion took place on the relationship of National Health Insurance contractors to the Joint Committee on a National Pharmaceutical Service, and the situation that had arisen from resolutions passed at recent Pharmaceutical Committee and N.P.U. Conferences (see *C. & D.*, June 7, p. 660). Messrs. J. Hughes, W. H. Hunt, S. Padwick and S. F. George, and Miss L. L. Peck, were among those who took part; a motion confirming the attitude of the N.P.U. was passed unanimously. Mr. Arch Wilson moved a vote of thanks to Mr. Hudson for having taken the chair and for the valuable work he had carried out on behalf of his colleagues.

IRISH NEWS

Dublin Medical Exhibition. — In connection with an International Congress of Obstetricians and Gynaecologists held in Dublin recently to celebrate the bicentenary of the Rotunda Hospital, an exhibition was held in the Mansion House. The exhibitors included Edward Taylor (Ireland), Ltd., William R. Warner & Co., Ltd., Glaxo Laboratories, Ltd., Genatosan, Ltd., Bayer Products, Ltd., The British Drug Houses, Ltd., Crookes Laboratories, Ltd., Boots Pure Drug Co., Ltd., Sharp & Dohme, Ltd., Parke Davis & Co., Reckitt's (Ireland), Ltd., Abbott Laboratories, Ltd., Ilford, Ltd., British Schering, Ltd., May & Baker, Ltd., John Wyeth & Bro., Ltd., Bengers, Ltd., Sister Laura's Food Co. (Eire), Ltd., Savory & Moore, Ltd., Imperial Chemical Industries, Ltd., Allen & Hanburys, Ltd., Eli Lilly & Co., Ltd., Cow & Gate, Ltd., Continental Laboratories, Ltd., Organon Laboratories, Ltd., Roche Products, Ltd., Armour Laboratories, Herts Pharmaceuticals, Ltd., Burroughs Wellcome & Co., Evans Medical Supplies (Ireland), Ltd., J. F. MacFarlan & Co., and Medical Gases, Ltd. Illustrations of some of the stands are given below.

OVERSEAS NEWS

American Manufacturers' Award.

The first recipient of an Annual Research Award, to be granted by the American Pharmaceutical Manufacturers' Association for outstanding research work in medical science, is Bernado Aberto Houssay, Buenos Aires, Argentine. His work has been in the field of the pituitary gland, diabetes and carbohydrate metabolism.

Five-year Health Plan for Iraq.

A hospital in every town and mobile clinics to serve every village throughout the country is the aim of Iraq's five-year plan to combat disease. Steps are being taken to fill to capacity training colleges for medical, pharmaceutical and other students, and it is planned to send students abroad for higher studies.

New Blood Factor Claimed.

The discovery of a new blood factor, necessary for coagulation, has been announced in Oslo by Dr. Paus A. Owren. This adds another factor to the four blood coagulation factors previously known. The new factor, named as Factor Five, appears to be a proenzyme for pro-thrombokinase. Dr. Owren is to study in England at the Lister Institute.



DUBLIN MEDICAL EXHIBITION. — At a medical exhibition, held in Dublin recently in connection with the International Congress of Obstetricians and Gynaecologists, many well known pharmaceutical manufacturers were represented

COMPANY NEWS

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W. B. CARTWRIGHT, LTD.—Mr. A. M. Bryan has been appointed a director of the company.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Lord Melchett has resigned from the board on medical advice. He has been associated with the company both as a director and in an executive capacity since the company's formation in 1926, and had been a deputy chairman since 1940.

A. & F. PEARLS, LTD.—Net profit for the year 1946 amounted to £53,920, against £52,725 in the previous year. Dividends on 6 per cent. preference and 12 per cent. preferred ordinary shares amounted to £50,400, the same as in 1945.

CUSSENS, SONS & Co., LTD.—Application lists opened and closed on July 25 for the offer for sale of 500,000 ordinary stock units of 2s. each at 25s. per unit. Owing to heavy oversubscription a drastic scaling down of allotments was made necessary. Applications from the public for 1,000 stock units and over have been allotted from 5 to 10 per cent. and smaller applications have been allotted up to 20 per cent. In view of a decision to make no allotment for less than 100 stock units it has been found necessary to use a balloting system in respect of applications for less than 500 units. Applications from suppliers, customers and members of the company's staff have received special consideration but these also have had to be severely scaled down.

TOPICAL REFLECTIONS

A Decisive Majority

By over 200 votes to fifteen, the Conference of Pharmaceutical Committee representatives that met on July 17 passed a resolution authorising the Joint Contractors' Committee of the National Pharmaceutical Union (with power to co-opt) to be the negotiating body for terms of contract in the National Health Service. This resolution, except for the addition of the words "with power to co-opt" is identical with one passed at a similar conference on May 28. Writing on the May Conference in your issue of June 14, I expressed the view that as the N.P.U. Executive, through the committee mentioned, had been the negotiating body on behalf of pharmacy in N.H.I. affairs for many years, it should have been confirmed in that office at an early stage in the present preparations for the National Health Service, and that a means of agreement with the company chemists should have been found. I suggest that everyone interested in the subject reads carefully the report on pp. 116-19 of your July 26 issue. The composition of the negotiating committee was thoroughly discussed for the second time, and it appears that all the cards are now on the table. So far as I can judge, the 200-to-15 majority is a true index of the intention on this matter throughout the N.H.S. constituencies. It should not be difficult to draw a clear distinction between the negotiation of a business contract and the discussion of topics of more general interest in which the Joint Committee can usefully share. Your readers will have noted the disappointing result of the investigation into "the value of a pharmacist," described by Mr. Mallinson as "that somewhat extravagant inquiry." One is reminded of an old saying that bought wisdom is the best if not bought too dear.

Chemical Celebrations

In the compass of a few pages (pp. 105-15) you have given a first-rate survey of the Chemical Society's centenary celebrations, the Eleventh International Congress of Pure and Applied Chemistry, and the Fourteenth Conference of the International Union of Chemistry. These three events disclose, among other things, the vast scope of modern chemistry. A few months ago I made an incidental reference in this section to the fact that many sciences converge on chemistry. The action is a reciprocating one, and its beginnings

can be traced back a long way. Taking from a shelf in a library the other day an old volume of "Blackwood's Edinburgh Magazine," I came upon a note by James Dallaway (1763-1834) on Mayerne's "application of chemistry to the composition of pigments. . . . From his experiments were discovered the principal colours to be used for enamelling, and the means of vitrifying them." The Dictionary of National Biography associates Mayerne with "cosmetics for the queen"—presumably James the First's wife; and, as is well known, he is credited with the introduction of calomel into the first London Pharmacopœia. For a practising physician of the seventeenth century this is a good record. Passing to the formation of the Chemical Society in 1841, the same reciprocating feature appears in another form in the declaration of its objects, one object being "the advancement of chemistry and those branches of science immediately connected with it." A liberal interpretation of the last nine words of this statement takes any society a long way.

"Almost Embarrassing" Variety

Sir Henry Dale's reference, in a Congress lecture (p. 112), to the "almost embarrassing" variety of new therapeutic agents can be applied to a wider field of activity. It is abundantly clear that by 1947 chemistry has become a multiple rather than a single science. It has moved far from the conditions of eighty years ago, when Leeds had "only one teacher of chemistry, who lectured in a cellar and was paid £11 a year." The indications are that chemistry will become increasingly sectionalised, and that chemists, like other men of science, will learn more and more about less and less. Even in its application to medicine and pharmacy, this science has thrown out many branches. We think, for instance, of the processes and the accompanying research needed for the production of such differing products as serums, sulphonamides, penicillin. As to other vocations, catering is concerned with the hydrogenation of fixed oils and with cold storage. Agriculture calls for research in veterinary diseases, fertilisers and pest control. Metallurgy seeks improvement in specifications for metal components used in the building and other industries. I need not continue this outline. The point is that we look to chemistry for much of what makes civilisation possible. **Xrayser**

INQUESTS

Slough Pharmacies Searched.—A detective-constable stated that, following the death of a woman in Windsor hospital from barbitone poisoning, he had searched every chemist's shop in Slough, but had been unable to find any record of her having received barbitone tablets from any of them.

Accidental Death.—At the inquest held in Liverpool recently on Dr. Richard Clitherow, M.P., M.P.S., his widow stated that he had taken seven barbitone tablets as sleeping tablets. A Home Office pathologist described seven tablets as "a bold dose," but he was satisfied that Dr. Clitherow had no intention of taking his life. A verdict of accidental death was recorded.

Morphine Poisoning.—At an inquest held in Manchester recently on Charles Ian Newburn, aged two, Gorton Lane, Gorton, it was stated that he had swallowed half a bottle of a proprietary medicine called "Johnson's Celebrated Infants' Preservative," and had died from morphine poisoning. Dr. P. B. Woolley said the boy had taken just under half a grain of morphine, in his opinion a fatal dose for a child of his age. Dr. S. Hodgson (deputy city coroner) said it was most dangerous to give morphia to young children. According to the medical report there must have been a grain of morphine in the whole bottle. He condemned the sale of preparations of this kind to parents. A verdict of death by misadventure from morphia poisoning was returned.

Methyl Alcohol Deaths.—At an inquest at Kilrea, co. Londonderry, Northern Ireland, recently, on a brother and sister, verdicts of death from poisoning caused by drinking methyl alcohol or wood spirit were returned. A sample of "methylated spirits" which had been purchased by the deceased woman was found on analysis to contain 95 per cent. methyl alcohol. The coroner said that there was no doubt that the deceased persons had died from drinking methyl alcohol sold in the form of industrial spirit. At a Ballymena inquest on Peter Kelly, St. Portglenone, co. Londonderry, the deputy coroner, returning a verdict of death from methyl alcohol poisoning, said that someone had sold the liquid to Kelly knowing that three other people had already died from it in the same district. He hoped the authorities would take steps to prohibit its sale.

Doctor Breaks into Poisons Cupboard.

—At an inquest held on Dr. Henry Canwarden (medical superintendent of St. Luke's Hospital, Guildford) at Guildford recently, the anaesthetist at the hospital stated that Dr. Canwarden had locked himself in the dispensary, and when witness and other persons finally persuaded him to let them in, they found he had a number of Nembutal capsules in his hand, and there was also a considerable amount of powder from the capsules in a glass container. Soneryl preparations were also stored in the drug cupboard. After letting them in Dr. Canwarden broke open the poison cupboard and removed a bottle containing strychnine, which witness took from him. Dr. Canwarden was persuaded to leave the dispensary, but returned, and tried to get into the dispensary by kicking the door down. Witness restrained him. The coroner, returning a verdict of suicide while the balance of his mind was disturbed, said that Dr. Canwarden was alone in the dispensary for about five minutes and had an opportunity of taking Soneryl.

Medicine Labels Transposed.—At a recent Birmingham inquest on Horace Gregg, Smethwick, who was stated to have died from narcotic poisoning, his medical adviser said he had prescribed two lots of tablets (M. & B. 760 and a barbiturate), which his patient was to commence taking on a Friday. On the Sunday he was called to the deceased's house and found Mr. Grigg in a semi-conscious condition. On examining the tablet boxes he found the instructions had been transposed, consequently gr. 80 (sixteen tablets) of barbiturate, instead of the M. & B., had been given during the two days. The man was taken to hospital and died shortly afterwards. Sidney O'Connor Holloway, M.P.S., Smethwick, said that it was his custom to write the labels for boxes before he made up prescriptions. He could not remember labelling the boxes concerned but he had treated them as urgent; he had been busy at the time, something must have distracted his attention. "I should like to express my profound regret for what has happened," he added. Recording a verdict of accidental death, the coroner said. "There is a human element in everything. There is no sign whatever of any gross or culpable negligence on the part of Mr. Holloway or of any intention to do harm to any person. He was endeavouring to do his duty to the best of his ability, but he made a fatal mistake."

LEGAL REPORTS

Dangerous Drug Offences.—At Huddersfield, recently, Dr. Kenneth Graham Wrigley was fined £60 for obtaining Omnopon tablets from chemists by false pretences.—At Southend, recently, Moira Hall-Reader, Leigh, was bound over and ordered to pay £1 is. costs on a charge of procuring morphine tablets by means of an alleged forged prescription.

Successful Challenge to Strychnine Order.—At Caister, Lincs, magistrates' court, recently, a submission made three months earlier by a Brigg solicitor that a war-time Order governing the sale of strychnine was *ultra vires* because the authorities were not empowered by any Act to make such an Order, was accepted in a reserved decision announced by the chairman. The case was one in which a Lincolnshire landowner and his gamekeeper had been summoned for a technical infringement of the poison regulations. The police complained (see *C. & D.*, April 12, p. 392) that strychnine obtained under a War Agricultural Committee permit for killing moles was actually used to kill carrion crows. The solicitor for the police claimed that there had been a clear breach of a war-time poison rule, which laid down that a person producing a written authority from an Agricultural Executive Committee might buy a limited quantity of strychnine for killing moles, but for no other purpose. Defending solicitor claimed, however, that any case brought under that rule, made in 1940 under the Pharmacy and Poisons Act, 1933, must fail if challenged because, he argued, it was *ultra vires*. He drew a distinction between powers for the sale and supply of poisons and restrictions on their use. This was a restriction on use, and the Secretary of State had no power under any Act, he argued, to make such a restrictive rule. After hearing further legal arguments in April, the chairman of the magistrates said that the point of law raised was important, and the magistrates would take time to consider it. "If necessary," he said, "we shall consult a higher authority." At the adjourned session, the chairman said the magistrates were satisfied that there was substance in the defence, and that the Rules or Order under which the prosecution was brought was *ultra vires*. The court accepted the view, that when the sale of the poison had been completed the matter was beyond the jurisdiction of the Secretary of State. The cases were dismissed.

DEATHS

STOTHERT.—On July 2, Mr. James Stothert, 4 Warwick Road, St. Annes-on-Sea, Lancs, formerly of 45 Grosvenor Road, Scarborough, and Albion Works, Atherton, Lancs, aged eighty-three. Mr. Stothert qualified as a chemist and druggist in 1886.

WILLIAMS.—On July 10, Mr. David Williams, Manor Farm, Glatton, Huntingdon, formerly of 74 Mountgrove Road, Highbury, London, N.5, aged seventy-nine. Mr. Williams qualified in 1901.

PERSONALITIES

MR. BRIAN PETERS (son of Mr. H. Peters, M.P.S., 71 Oxford Road, Basford, Newcastle) has obtained the B.Sc. degree in pharmacy at Manchester University.

MR. D. McMASTER, who has been appointed vice-president and assistant general manager of the Eastman Kodak Co., Ltd., is to take up permanent duties in the United States. He was previously deputy chairman and European general manager of Kodak, Ltd., London.

COUNCILLOR GWILYM HYWEL HUGHES, M.P.S., 24 High Street, Conway, has accepted the invitation of the National Pharmaceutical Union to serve on a committee of twelve to advise the Minister of Health on proposals for dispensing services in the rural areas of England and Wales under the new Health Bill. He will be the only Welsh-speaking member of the committee.

BUSINESS CHANGES

MR. R. HINDHAUGH, M.P.S., has opened a business at 86 Princess Road, Seaham, co. Durham.

POTTERIES TOILET CO., LTD., have moved to 125 Waterloo Road, Burslem, Stoke-on-Trent.

FULLER-SIMPSON, LTD., have opened new offices at 6 St. Dunstan's Lane, London, E.C.3 (Telephone: Mansion House 9966).

JOHN HARLEY, LTD., have acquired the pharmacy at 13 Watling Avenue, Burnt Oak, Middlesex, formerly carried on by Boulwood, Ltd.

BAMBER BRIDGE AND DISTRICT INDUSTRIAL CO-OPERATIVE SOCIETY, LTD., have purchased the business of Mr. R. E. Culshaw, M.P.S., at 190 Station Road, Bamber Bridge, nr. Preston, Lancs.

GUTHRIE BROS. & Co., 16 Eastcheap, London, E.C.3, announce that Mr. S. Time-well has resigned his partnership in the firm for reasons of age and health, but is continuing as manager of the firm's produce department.

TRADE NOTES

Eyelash Curlers.—Jay Glamour Products, Ltd., Mitre House, Western Road, Brighton, Sussex, are marketing a device for curling eyelashes without heat.

Holiday Closings.—The Academic Depot, 158 Oxford Street, London, W.1, will be closed for the annual staff holiday until August 11.

Display Outers.—Wendy brand Creme de Lanolin is now issued by the manufacturers (College Laboratories, Ltd., Warmley, Bristol) in cartoned tubes presented in 2-doz. outers. The sole distributors for England and Wales are Finley-Kale, Ltd., 21 Balham Hill, London, S.W.12.

Price Increases.—New prices came into effect on August 1 for the following vitamin A specialities issued by Glaxo Laboratories, Ltd., Greenford, Middlesex:—Adexolin capsules and liquid; syrup Minadex; Prepalin capsules, liquid and ampoules.

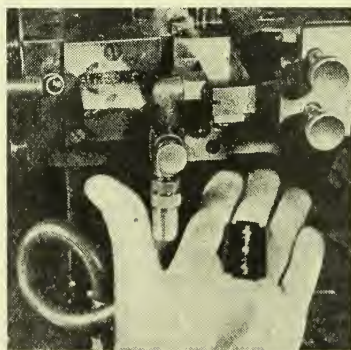
Distribution in Poland.—Asmidar, Ltd., 16 Douglas Street, London, S.W.1, offer the facilities of the Asmidar Pharmaceutical Factory, Warsaw, Poland, to pharmaceutical and chemical manufacturers interested in the distribution of their products in Poland.

Alternative - colour Pack.—Cussons, Sons & Co., Ltd., 84 Brook Street, Grosvenor Square, London, W.1, have issued their White Cross baby powder in a new post-war pack with the alternative of pink tins for girl babies and blue tins for boy babies. Terms for the preparation are given elsewhere in this issue.

Bottles for Prompt Delivery.—British Continental Drugs, Ltd., 7 Pratt Walk, London, S.E.11, invite inquiries for all pharmaceutical bottles in clear or amber glass manufactured by British Continental Drugs, S.A., Chaussee de Louvain 618, Brussels, Belgium. They are in a position to supply promptly.

Technical Booklets.—May & Baker, Ltd., Dagenham, Essex, have issued two new editions of booklets in their series of technical publications: The first on Cyclonal sodium, describing the uses and applications of soluble hexobarbitone as an intravenous anæsthetic; and the second on Soneryl and Soneryl sodium brands of butobarbitone and soluble butobarbitone. The booklet on Soneryl, now in its eighth edition, will be available when the seventh edition is exhausted.

Factory Processes Filmed.—A forty-five minute film has been made illustrating the manufacturing processes carried out at the works of Gillette Industries, Ltd., Great West Road, Brentford, Middlesex. The Brentford factory was chosen as typical of Gillette works throughout the world, all of which are organised on the same model. The film illustrates the story of razor blades from the arrival of rolls of steel bands at the factory, through hardening, grinding, and engraving processes, to separation into individual blades, and testing and mechanical packing. Also shown in the film are the manufacture of safety razors, work in the research departments, and social and staff welfare aspects of the organisation. Stills from the film are shown below.



"STILLS" FROM A FILM. — Left, Rolls of steel ribbon arrive at the Gillette works, Brentford, for manufacture into razor blades. Centre, A sample blade is removed for examination while a process is in operation. Right, A final micrometer check is made of the size of the newly made blade.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

ON July 21, Mr. F. W. SKINNARD asked the Minister of Food whether he would authorise local food offices to exchange for points on production of an appropriate medical certificate, the bread units of persons advised on medical grounds to eat rye biscuits instead of bread. Mr. JOHN STRACHEY explained that in special cases, on medical certificate, points were given in exchange for bread units where the Ministry's medical advisers agreed that rye biscuits were essential but that because supplies were limited he could not leave the decision to local food offices. If Mr. Skinnard had in mind the rate of exchange of units he might make representations to the Minister on the matter.

"Staggered" Hours in Factories

ON July 22 Mr. GEORGE ISAACS (Minister of Labour) announced that powers would be taken to impose penalties on firms failing to co-operate in regional schemes for "staggering" the peak electricity load in the coming winter. The maximum penalty, he said, would be a £500 fine or two months' imprisonment. Existing plans were for any prosecution to take place under a Defence Regulation, but a special Order might be introduced.

Imports from Spain

MR. W. TEELING, who asked on July 22 what goods were coming in today from Spain, in what quantities, and what was being exported there, was told by Mr. J. W. BELCHER (Parliamentary Secretary, Board of Trade) that the value of imports from Spain in 1946 was £12,750,000, and in the period January to May this year half that amount. Potassium chloride was one of the principal imports, along with cork manufactures, oranges, iron ore, etc. Chemical products were among the principal exports.

Trade-mark Registration Delays

MR. WALKER-SMITH asked the President of the Board of Trade on July 24 whether Sir Stafford Cripps would announce any steps to reduce delay in decisions on trade marks. Sir STAFFORD CRIPPS replied that, owing to staffing difficulties and more numerous applications, the period between the filing of applications for the registration of a trade mark and the communication to the applicant of the official report on the application was now about twelve months.

Every effort was being made to provide and train the additional staff necessary to reduce the delay.

"Industrial Ten" Clothing Coupons

MR. R. SARGOOD asked Sir Stafford Cripps if he was now prepared to reduce the qualifying period for the Industrial Ten coupons below twenty-two hours a week.

SIR STAFFORD CRIPPS: Yes. I have decided that, from the date of the next issue, the qualifying period will be twenty hours.

Fluorine Report

MR. HERBERT MORRISON (Lord President of the Council) informed Mr. CHARLES WILLIAMS, who asked when the report of the Fluorine Commission that visited Port William aluminium works in 1945 was to be published, that the report of the Committee set up by the Medical Research Council at the request of the Department of Health for Scotland was ready for Press, and was expected to be published during the autumn.

Cost of Calf Lymph

MR. T. BRADDOCK asked the Minister of Health on July 24 how much money was paid to the Lister Institute for vaccine lymph supplied by the Institute for public vaccinations. Mr. ANEURIN BEVAN replied that the payment was £10,000 yearly for lymph up to a total of 500,000 doses, plus twopence per dose for any additional supply. To a further question from the same speaker, why sheep instead of calves were used in the manufacture of vaccine lymph at the Institute, and whether the process was similar to that formerly used at the Government lymph institute in regard to calves, he said he understood that the Lister Institute preferred sheep to calves because they were more readily obtainable, easier to keep clean, harder and not subject to tuberculosis, although, when calves were used, post-mortem examination of every animal eliminated the latter risk. The process was similar to that used with calves.

Drug Store Meeting-places?—A survey of leisure-time activities published recently by the Luton Youth Council discusses the types of social centres required, and suggests that meeting places of the American drug store type would be highly popular among young people in Britain.

MINISTRY OF HEALTH BULLETIN

ABSTRACTS are given below of the papers included in the fifteenth Bulletin to Pharmacists issued by the Ministry of Health.

Diphtheria Prophylaxis

By J. R. Hutchinson, M.D.

Two years ago, I was privileged to contribute a brief article on diphtheria in which was stressed the responsibility of the parent, and there were set out certain figures showing what had been accomplished in the matter of artificial immunisation against this disease by the end of 1943. It may now interest pharmacists to learn the present position. What, it may be asked, is the record of the mischief done by diphtheria and what was the extent of the problem the Ministry was called upon to tackle in 1940? What has been accomplished and what was the responsible agent? In the ten years preceding mass immunisation (1930 to 1939), the annual number of notified cases varied roughly from 74,000 to 47,000 and the average annual number of deaths was approximately 3,000. The relative figures for each year in the second quinquennium of this period were:—

Year	Cases	Deaths	Year	Cases	Deaths
(1)	(2)	(3)	(4)	(5)	(6)
1935	64,084	3,408	1941	50,797	2,622
1936	57,795	3,003	1942	41,404	1,807
1937	61,341	2,898	1943	34,662	1,348
1938	65,008	2,861	1944	23,199	908
1939	47,343	2,130	1945	18,596	694
			1946	12,337	472

Mass Immunisation began late 1940.

The fluctuation in the sequence 1935-39 is typical. Though mass immunisation began at the end of 1940, it did not get properly under way until 1941-42. Columns (4), (5) and (6) give the comparative figures for the six completed years immediately succeeding its introduction. Some diminution in incidence and in the number of deaths is observable in the first or pre-immunisation period, but the figures are in marked contrast to the orderly and progressive decline seen in the second. It should be here observed that a check on diagnosis was introduced early in 1944, but this does not upset the progressive decline shown. The sustained improvement is no accident, being found in every quarter of every year.

Prophylactic of Choice

Alum precipitated toxoid remains the prophylactic of choice, given in two doses with an interval of not less than four weeks, for the immunisation of infants and young

children up to the age of eight years or thereabouts. For older children, some medical practitioners prefer to use the rather milder toxin antitoxin floccules (T.A.F.), but this involves three doses instead of the two required for A.P.T. Research is being pursued and Holt, St. Mary's Hospital, recently reported (see p. 140) the production of a purified toxoid adsorbed on a suspension of a measured amount of pure aluminium phosphate, which clinical trials by Bousfield have proved to have a high protective value, with a complete absence of local or general reactions. Holt's process is more laborious and costlier than the preparation of A.P.T., which is receiving the attention of the technical staffs of manufacturers.

Venereal Disease in England and Wales

By G. L. M. McElligott, M.A., M.R.C.S.

WHEN the French King Charles VIII was laying siege to Naples, a handful of Spanish mercenaries in the Neapolitan army of defence, finding themselves infected with syphilis (a recent importation to Spain from the Americans), drove their women camp followers from the beleaguered fortress into the French camp. Within a few weeks a "plague" broke out among the French soldiers similar to that which afflicted Barcelona after the return of Columbus's men from their voyage of discovery. The retreating French army spread the new disease throughout Italy, and within a short time it had almost assumed the proportions of a European epidemic. Warring nations blamed their enemies for the outbreak; the French calling it *mal de Naples*, Italians *malum Francorum*, Poles, the German disease, Russians, the Polish disease, while the English, whose King Henry VIII was one of its victims, were content to name it the French pox.

During the last four and a half centuries, syphilis and gonorrhœa have been numbered among the many evils that attend on wars, and in our own time, both during the four years' war and the recent struggle, the incidence of both diseases has shown a spectacular rise. Twice in thirty years the public conscience has been shocked into action. Once in 1917, when as a result of the findings of a Royal Commission, statutory regulations made it illegal for anyone, save a qualified medical practitioner, to treat these diseases; required local author-

ities to make provision for their free and confidential treatment; and forbade the sale to the general public of alleged specifics for their cure. Again in 1942, after it had become obvious that we were rapidly losing the ground we had gained between the two wars, there was a second awakening. Coincidental with praiseworthy publicity was the advent of penicillin, which has shortened the period of treatment of both gonorrhœa and syphilis in their early stages, so that it is rare for a patient not to complete his treatment. The treatment time for syphilis has been reduced from about a year to a maximum of a few weeks, while that of gonorrhœa is usually a matter of hours. We cannot say that the new treatments are 100 per cent. efficient, but they are sufficient to make it unlikely that a treated patient will infect a third person.

Resistant Strains

Since 1943, however, it has become apparent that the sulphonamide-susceptible strains of gonococci are gradually becoming eliminated, and we are now left with a large proportion of the sulphonamide-resistant strains. The result is that today little more than 50 per cent. of gonococcal infections can be cured by sulphonamide drugs. Penicillin came just in time, and has undoubtedly proved itself to be "stronger medicine" than was any sulphonamide at any time. Still, there is a small hard core of cases which relapse after treatment, and the development of a penicillin resistant type of gonorrhœa is well within the bounds of possibility. Though it is still too early to foretell the ultimate results of this treatment, an overall relapse rate of about 10 per cent. is to be anticipated, and it is for this reason that in most British clinics penicillin treatment is reinforced by a short course of the neoarsphenamine and bismuth.

Even before the start of the recent publicity campaign, the increase in the number of new patients coming to the clinics who were found not to be suffering from a venereal disease has been apparent and since 1942 it has been most striking.

Congenital Syphilis

In step with the increase in syphilis in women during the late war has been a corresponding rise in the number of cases of congenital syphilis in infants of less than one year old, and in 1944 these totalled 346 as against 217 in 1939. It is satisfactory, however, to note that the death rate from syphilis among these infants in 1945

reached a new low record (0.15 per 1,000 live births), indicating not only that the treatment of these children is more efficacious than formerly, but that the condition is now more promptly diagnosed and treated.

Early syphilis in women is only too often a hidden disease, particularly as the primary sore, which is painless, is liable to be partly, if not entirely, out of sight. Consequently, the infected woman almost invariably comes under treatment at a later date than does the infected man—and in the meantime she is liable to infect another sexual partner or, if she is pregnant, to pass on the disease to her unborn child. Even in the male, the average incubation period of syphilis is about 28 days, and during all of this time he is infectious.

Pharmacist's Rôle

I feel that the pharmacist can be a vital link in the chain of events which bring the infected person under treatment. Traditionally he is consulted about and asked to prescribe for what may appear to the patient trivial signs or symptoms. Those of early venereal disease come within this category, and it is unfortunately true that the slight dysuria of gonorrhœa or the discomfort of underclothes chafing a syphilitic ulcer can undoubtedly be relieved by an alkaline bladder sedative or a soothing ointment. If these are prescribed, the gates of a fools' paradise may be unlocked only too easily and the consequent relief lead to a neglect of what to the ignorant victim, especially if she is a woman, may be the only warning of her condition. Although the pharmacist will not, and indeed cannot, suggest a diagnosis of venereal disease in so many words, he can always without offence inform the patient that the symptoms might be of serious import, and refer her to a doctor or hospital for examination without delay.

Statesmanlike Solution.—One morning at a country house where Gladstone was among the guests talk at breakfast turned on the difficulty of packing a sponge immediately after use. After various suggestions had been discussed the G.O.M., who had seemed absorbed in his correspondence, looked up and declared them all ineffective. "The only proper method," said he, "is to wrap your sponge in your bath-towel and stamp upon it. Then put it in your sponge-bag. You will find it perfectly dry."—A columnist in the "Manchester Guardian."

SUMU : AFRICAN ARROW POISON

IN the Pa-re of northern Tanganyika Territory, most natives carry bows, with quivers each containing a couple of fire sticks and about six arrows; on three of the arrows a poison is smeared; it is spread as a black paste on the metal stem behind the barbed arrow-head (between the head and the wooden shaft) where it hardens like a lacquer. The poison is bought in the

are in flower. In East African newspapers during the past thirty or forty years have appeared stories of men found dead beneath certain trees in the bush, or overcome and barely escaping with their lives. Scientists have scoffed at the idea of a strongly narcotic or even lethal effect in the scent of the flowers, but the presence of dead birds at certain times may not be well known to them.

The arrow poison is made into sticks about the size of a little finger, and wrapped in maize husks. In 1925 it was sold in the Pa-re barter markets at sixpence a stick, or two sticks for three goats. A live sheep could then be bought by a European for one-and-sixpence. Inquiries were made at the time into the manufacture of the poison, and specimens of the shrub were sent to Kew for identification. It was suggested that a good deal of

cheating and adulteration took place among those in the trade, the Wakamba natives being especially accused of selling ineffective poison. Since the poison is effective in very small amounts, it is more than likely that, before being sold, it is mixed with some other substance (possibly dried animal blood) to increase the bulk. The natives have no means of exact measurement, and an error of judgment in mixing could easily result in an "ineffective" poison, which would be regarded by the buyer as due to deliberate cheating. As a consequence, the practice arose of testing the poison before concluding a purchase. Toads were selected for the tests, because they were considered more resistant to the poison than any other creature. A quantity was inserted into the flesh of the toad on a sharp splinter of wood, and the poison was said to be good if the poor creature died within a short time, said to be between fifteen and twenty minutes. Little reliance, however, can be placed on this estimate because the natives mostly judged the time by the position of the sun. Some parts of the process of pre-



Near Kiberege, Pa-re country, Tanganyika Territory

local barter markets from a seller who may come from the Wakamba tribe in southern Kenya Colony, where the poison is made and used extensively. Alternatively, he may sell poison made by a small group of Pa-re people living at Kiberege, in the Pa-re Mountains.

Sources of Sumu

It is considered probable that the Wakamba and some other tribes extract their poison from various species of strophanthus shrubs, but the poison of the Pa-re people is extracted from a small shrub *Acokanthera longiflora*, Stapf., which is found in the foothills of the mountains not far from a village named Ngulu. The flowers of the *acokanthera*, produced in bunches along slender branches among pale green leaves, are very pretty. They are tubular in shape, and in colour creamy-white, tinged with pink. They have also a powerful and sweet perfume, wherein lies an unsolved mystery, for the natives make their poison, they say, only when dead birds are found beneath the branches, as they are when the shrubs

paring the poison remain secret, but it is known that the roots of the bushes are dug out of the ground at the proper season, and chopped into small pieces, which are boiled in water to make a strong infusion. More and more chips are added until the liquid is considered to be of the right colour. At that point, the chips are taken out and the infusion boiled again until the water has evaporated. The residue is the arrow poison as used by the native bowmen.

There is no doubt about the virulence of "sumu". An animal struck by a poisoned arrow dies rapidly, and is said to tremble in its death throes. The animal, when it can be approached with safety, or without causing it to run too far away and get lost,

is killed with a spear or by cutting its throat. The flesh round the poisoned arrow-head is then immediately cut away, for if poisoned flesh is eaten it is said to cause pain, diarrhoea, and a kind of intoxication. Despite the potency of the poison, the arrow-heads are only occasionally found wrapped in banana fibre. More often they are naked. A native who was asked what happened if a man accidentally cut or scratched himself with one of his own arrows said that that would not be dangerous if the wound was sucked at once, though the person who sucked the wound might feel a little intoxicated. In addition, sucking the poison would cause blistering of the lips.—A. E. H.

BIRMINGHAM BRANCH DISCUSSION

MR. G. GOULDING presided at a recent meeting of the Birmingham Branch of the Pharmaceutical Society, at which more than 100 members were present to hear MR. T. REID (a member of the Society's Council) describe a proposed by-law to restrict canvassing in Council elections, and explain the proposed changes in the Society's constitution and education policy.

Canvassing for Council Elections

MR. W. R. HEADING said voluntary restrictions on canvassing had worked well for two years and, he thought, should continue. There might be a tendency towards forming a Council composed of the representatives of various organisations; the employment of agents should be banned. MR. P. CREES supported the by-law but thought it did not go far enough; legal control was required. MR. W. J. IZON considered the suggestion panic legislation, undemocratic and impossible to put into practice. MR. H. WALSH was opposed to the proposal on principle, but "publicity" needed to be defined. It was certainly unwise that sectional candidates representing partisan views should constitute the Council. A resolution endorsing the view of the Branch that the good sense of members would produce results as effective as any restrictive measure was then proposed by MR. WALSH, seconded by MR. J. P. ATKINSON, and carried unanimously.

MR. T. L. BOWYER asked if the Council, in formulating its education proposals, anticipated that pharmacists would become either professional men or business men. He was reluctant to suggest a split, but pharmacists in hospital, research or teaching work needed the maximum qualification, but such a high standard was not re-

quired for retail shop practice. MR. IZON considered the present courses sufficient for present needs. The new proposals would lead to a reduction in the number of students taking up retail pharmacy; where would the necessary personnel for the National Health Service be found? MR. F. A. GUNN asked if the present one-year course was insufficient for the existing syllabus. MR. BOWYER thought it was. MR. REID said every pharmacist should have a qualification which would enable him to take any job in pharmacy. MR. J. P. ATKINSON said business training, which was essential, appeared to be neglected. DR. PRIESTMAN asked if the Council wanted the Ph.C. course condensed into two years. MR. WALSH said a raised standard of pharmaceutical education was necessary to keep pace with developments in other spheres. A motion accepting the new educational proposals was then carried.

Revision of Constitution

MR. WALSH said the suggestions for revising the Society's constitution were of too general a nature. Vital matters such as the revision of procedure for the election of a Council should have been tackled; the protection of companies was not mentioned and far too much had been left to be decided at a later date. MR. CREES welcomed a proposal which would permit the formation, under the umbrella of the branch system, of special groups of members having distinctive interests. MR. HEADING objected to the wording of a proposal to replace the words "the protection of persons carrying on business as chemist and druggist" by a phrase embracing the honour of, and promotion of the interests of, the pharmaceutical profession.

MEDICAL ABSTRACTS

U.S. Deaths from Allyl Compound.—At least ten deaths of infants have occurred in the United States following administration of suppositories containing the bismuth salt of diallylacetic acid. Three to six times the recommended dose was given, and though the cause of death is not definitely established, it may have been the diallylacetic acid: The "Journal of the American Medical Association" (March 22, p. 852) urges pharmacists and physicians to warn patients to destroy any stocks they hold.

Toxic Effects of Thiourea.—The high incidence of unpleasant side-effects, contraindicate thiourea in the treatment of thyrotoxicosis, according to Morgans ("Lancet," April 19, p. 519). Observations on the use of aminothiazole for the same condition show (contrary to the results of continental workers) that the drug depresses the level of granular cells. Methyl thiouracil and thiouracil both produce some depression of the white cells, but the incidence of other toxic effects is low.

Iron Poisoning.—Cases of poisoning followed by the deaths of two children who had taken an excessive number of proprietary tablets containing exsiccated ferrous sulphate, 3 gr., copper sulphate 1/25 gr., and manganese sulphate 1/25 gr. are described by Forbes ("British Medical Journal," March 22, p. 367). The evidence, and the results of animal experimentation, showed that while, in ordinary doses, the tablets may be innocuous, in large doses they may prove to be highly dangerous. Ferrous sulphate, on contact with the gastric juice, becomes converted into ferric chloride, a salt which has "a considerable irritant action," and which accounts for the acute hæmorrhagic gastritis found in the two children and in the experimental animals. Ferrous sulphate is the noxious ingredient of the preparation.

Treatment of Serum Sickness with Benadryl.—Serum sickness, a complication which sometimes follows heterologous serum therapy, may be controlled by Benadryl hydrochloride, according to investigations on ten cases by Peterson and Bishop ("Journal of the American Medical Association," April 26, p. 1277). Repeated oral doses of 8 mgm. per lb. of body weight (in infants) were tolerated without notable reactions; nausea was troublesome in only one case, but was more frequent when the compound was given as an elixir than when given

as a powder. A dosage of 50 to 100 mgm., given at six to eight-hourly intervals throughout the duration of the sickness, was found to be adequate. In every case 100 mgm. of the drug completely abolished all manifestations of the serum sickness within two to three hours.

A New Rickettsial Disease.—Greenberg and others ("Journal of the American Medical Association," March 29, p. 901) have examined 144 cases of an unclassified disease first notified in New York in June 1946, and have established the existence of a new rickettsial disease, for which the name rickettsial pox is proposed. For the causative organism, which has been isolated from the blood of two patients and from two pools of rodent mites (*Allodermanyssus sanguineus*), the name *Rickettsia akari* is suggested. The disease is characterised by the appearance of an initial lesion about a week before the onset of fever, chills, sweats, headache, and backache, and by the appearance, three to four days after the onset of fever, of a maculopapular and papulovesicular rash. The disease was formerly diagnosed as a typical chicken pox, or fever and rash of unknown origin. No deaths have been reported from the condition.

New Diphtheria Toxoid.—In view of variations (as much as one hundredfold) in the efficiency of different batches of diphtheria alum-precipitated toxoid, Holt ("Lancet," March 8, p. 282) has described a method of preparing a new diphtheria prophylactic consisting of a purified toxoid precipitated by a suspension of aluminium phosphate. Tests on guinea pigs showed that the preparation had a high antigenic activity, particularly upon the first injection, and that the potency varied, up to an optimum, with the amount of aluminium phosphate present. The preparations were of "unusually constant" potency, caused fewer reactions in sensitive persons than A.P.T.; and had good storage properties. As nodules were formed at the site of injection a "depôt" or "reservoir" action was considered possible. Bousfield, in describing (*ibid.*, p. 286) clinical trials with the aluminium phosphate-precipitated toxoid states that the Schick-conversion rate in children under one year old rose steadily as the concentration of $AlPO_4$ increased (1 Lf unit dosage being kept constant). Nodule formation after subcutaneous injection rose in approximately the same proportion.

B.P. CONFERENCE PROGRAMME

Monday, September 15

- 8.30 p.m. Marine Spa, Beacon Hill,
Civic Reception by mayor of
Torquay.

Tuesday, September 16

- 10 a.m. Pavilion, Torbay Road.
Official welcome by the mayor,
followed by Open Session.
Address by Conference Chair-
man, Mr. B. A. Bull, Ph.C.,
A.R.T.C.
- 11.30 a.m. Pavilion. Science Session.
- 11.30 a.m. From Pavilion. Ladies' excur-
sion along Marine Drive.
- 1 p.m. Town Hall, Castle Circus.
Luncheon.
- 2.30 p.m. Science Session.
- 2.30 p.m. Pavilion. Afternoon orchestral
concert (Ladies invited by
courtesy of mayor and Cor-
poration).
- 4.45 p.m. Torre Abbey. Garden Party
by invitation of the mayor and
Corporation. (Coaches leave
Magdalen Road, rear of Town
Hall, at 4.30 p.m.).
- 8.30 p.m. Visit to Pavilion Theatre, Tor-
quay.

Wednesday, September 17

- 10 a.m. Science Session.
- 10 a.m. Branch Representatives' meet-
ing.

- 10 a.m. Ladies' excursion. "The River
Dart".
- 12.30 p.m. Jubilee Gardens, by Town
Hall. Official photograph.
- 1 p.m. Town Hall. Luncheon.
- 2.30 p.m. Science Session.
- 2.30 p.m. Branch Representatives' meet-
ing. Ladies' free afternoon.
- 9 p.m. to Town Hall. Conference Ball.
- 2 a.m. Card Room for non-dancers.

Thursday, September 18

- 10 a.m. Symposium Session.
- 10 a.m. Ladies' excursion. Brixham
and Berry Head.
- 1 p.m. Town Hall. Luncheon.
- 2.30 p.m. Conference excursion across
Dartmoor.
- 8 p.m. Town Hall. Café Continental.

Friday, September 19

- 10 a.m. Pavilion. Closing Session.

The official guide and books of tickets are being issued before the session of the Conference at the Pavilion from 9.30 a.m. on September 16. It is hoped to restart the competitions for the golf and bowls trophies. Intending entrants should send their names to Mr. F. H. Bellett, M.P.S., 57 Whiteway Drive, Exeter, not later than August 1, 1947, stating which competition is intended, and giving particulars of handicaps, etc. Details of the Conference are obtainable from the Local Secretary (Mr. T. D. Evans, 2 Torhill Road, Torquay).



CONFERENCE LOCAL COMMITTEE.—Seated: Miss P. Quant, Messrs. W. H. Wyatt (treasurer), E. J. Bowerman (vice-chairman), H. Holmes (chairman), T. D. Evans (secretary), and Mrs. A. Macmannes. Standing: Messrs. J. R. Sharpe and W. F. Byatt-Smith, Miss E. G. Maxey, Mr. J. C. Jessop, Mrs. T. D. Evans, Mr. A. H. Williams, Mrs. M. Lunt, Mr. W. Parr-Ferris, Miss M. Ashplant, Mr. J. J. C. Bosanko and C. Huxtable.



TORQUAY—VENUE FOR THE CONFERENCE

BUILT on seven hills, like Rome of old, Torquay, where the British Pharmaceutical Conference is being held this year, has a scenic beauty that at once arrests the eye of the visitor arriving by train. From the shores of the bay rise wooded hills dotted with white buildings. On a sunny day the sea is often of Mediterranean blue, gay with yachts or speedboats, or studded at times with ships of the fleet. Flanking the wide road that fringes the bay are public gardens prolific with palms and other sub-tropical plants. The beautiful Torre Abbey ruins, in grounds reaching down to the sea front, offer a feature of special interest. In its monastic barn were imprisoned the captured crew of one of the ships of the Spanish armada. In the Princess Gardens, farther round the bay, stands the Pavilion, flanked by the finest collection of outdoor palms to be seen in Britain. Here weekly

concerts are held throughout the year, as well as musical and non-musical plays, shows, ballets, variety, etc.

On the other side of the Pavilion lies the inner harbour; beyond, on the far point of the outer harbour, stands the Marine Spa, with regular dances and morning concerts, two fine lounges, and a covered warm seawater swimming bath. The windows of the sun lounge overlook Beacon Cove and give on to a view reminiscent of the French Riviera. The eleven miles coastline of Torquay takes in the beautiful suburb of Babbacombe, between which and central Torquay is a Marine Drive, which ascends from Meadfoot beach, winds along the cliff top and dips down eventually to join a sylvan road that leads past Anstey's Cove (once the haunt of smugglers) and Redgate beach, and merges into a road near which stands Kents Cavern, source of Ice Age relics.



View of the waterfront
from the Rock Walk.

The Abbey Gardens, with
tropical plants

Rock Walk and Corner
Walk, Torquay

Edicombe Beach

On the opposite side
the town stands the
famous old-world
village of Cockington,
mentioned in Domesday
Book, its thatched cot-
tages in marked contrast
to the modern building
activities of Tor-
quay. Torquay is also
the gateway to rural
Devon—the Dart valley,
Dartmouth, miles of
moorland, mediæval castles —
a centre for visiting
Devon's other towns,
especially Totnes, once
the smallest walled town
in England, Exeter,
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INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:
Old Leather perfume.

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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

VOL. CXLVIII AUGUST 2, 1947 NO. 3519

"Pooh-Bah" Poisons Law

CIRCUMSTANCES since 1933 have extended and combined the administration of the Pharmacy Acts by the Pharmaceutical Society of Great Britain to an extent which bids fair to make the Society a veritable Lord-High-Everything-Else on poisons law. Recently we had to comment (*C. & D.*, 1947.II.46) on a decision by the Society as an interpreter of the Poisons Rules—a decision which throw doubts upon its capacity as teacher and examiner in forensic pharmacy. Its rôle as prosecutor is liable to be invalidated by dubious court actions, and the prestige of pharmacy is lowered when, as too frequently happens, its official organisation loses appeals. The Society's disciplinary powers are such as to demand the utmost discretion in dealing with the manifold doubts and difficulties arising from the poisons law. The Society is in a position to accord "official" sanction to decisions contrary to the proper provisions of the poisons law. The example of Tab. Codein. Co., B.P.C., below, well illustrates the conflict and confusion arising from this situation.

As originally formulated in the National Formulary for Health Insurance Purposes, Tab. Codein. Co. consisted of acetylsalicylic acid, gr. 4, and phenacetin, gr. 4, with codeine phosphate, gr. 1/6, and was therefore a First Schedule poison. In the National War Formulary of 1941, the amount of codeine phosphate per tablet was reduced to gr. $\frac{1}{8}$, but this did not affect its S.I. status. The B.P.C. Formulary (Supplement, Part III) adopted this modifica-

tion in 1941, and in addition specified that each tablet must weigh not less than gr. 10 (by adding sufficient starch and lactose). By this device the codeine content was reduced to 0.9 per cent. or less, and the tablets brought within the Ex. S.I. limit of 1 per cent., so that they became an unscheduled poison.

To meet repeated queries from subscribers, a special notice was included in these columns (*C. & D.*, 1945.I.276). One manufacturer found our explanation unacceptable, and submitted the matter to the Pharmaceutical Society, which resulted in a reply by the Society's secretary as follows:—

TAB. CODEIN. CO.

"The position is governed by Poisons Rule 2 (2) which states that a reference to an alkaloid shall include a reference to any of its salts. Consequently it is not correct to base the calculation of strength on anhydrous alkaloid.

"The B.P.C. requires $\frac{1}{8}$ -grain codeine phosphate in a tablet which is not to weigh less than 10 grains. On this minimum figure the percentage is 1.25, and therefore the tablet is a First Schedule poison.

"The classification given by THE CHEMIST AND DRUGGIST could only be correct if qualified by the words 'If the tablets weigh more than 12 $\frac{1}{2}$ grains.'"

It may be taken, of course, that the omission of "each" as the final word in the secretary's letter was inadvertent.

Purpose of Rule

At the time our view was that the secretary's argument was completely wrong. Rule 2 (2), as indicated in the margin thereto, is simply and solely an interpretation clause, limited in application to the meaning of the expression "alkaloid." It merely implements (in the Poisons Rules) the Poisons List entry referring to "Alkaloids, the following, their salts, simple and complex," which words are repeated precisely in the First Schedule to the Poisons Rules. The object is to obviate such quibbling as that an alkaloidal salt is not an alkaloid. To suggest that Rule 2 (2) alters the proportion of poisons in a "substance falling within the Poisons List" is an argument beyond our comprehension, and it was deemed desirable that no publicity should be accorded to any such misinterpretation.

Correspondence received recently shows that this questionable decision is creating

considerable difficulties in trade practice. Thus one subscriber informs us that, while some makers regard Compound Codeine Tablets, B.P.C., as a First Schedule poison, others consider that they are in Part 1 only. He adds: "Certainly, in some respects, this latter view seems less paradoxical than the first interpretation of Rule 2 (2), whereby two limits of codeine content are set, depending on whether codeine is present as alkaloid or as codeine phosphate. Finally some manufacturers avoid the issue by increasing the tablet size to gr. 13."

Basis of Calculations

This state of affairs is undoubtedly due to the dictum of Mr. Linstead, which runs counter to all canons of calculation in poisons law. Codeine, to the analyst, can only be methylmorphine (M.W. (anhydrous): 299), a proposition confirmed by an instruction in the Dangerous Drugs (Methylmorphine and Ethylmorphine) Regulations, 1937, that the percentage is to be "calculated as pure drug." The table of D.D.A. limits for morphine salts (*C. & D. Poisons Guide*, p. 19) shows variations up to 50 per cent. between the relative weights of an alkaloid and its salts, and under the secretary's ruling the variable Ex. S.1 limits differ from the fixed Ex. D.D. limit—a position that is the height of absurdity. The First Schedule itself specifies that limits should be calculated as either alkaloid (e.g., atropine and anhydrous morphine) or alkaloids (e.g., solanaceous alkaloids calculated as hyoscyamine). In the sixth Schedule, under "Alkaloids," permission is given to express the proportion of indeterminate poison in terms of "any one alkaloid" (e.g., aconite alkaloid as aconitine). Apart from the above statutory references which are contradictions of the argument put forward by the secretary, the futility of his case is self-evident from the fact that it would entail endless variations in Ex. S.1 limits for alkaloidal poisons.

We submit that steps should be taken to avoid such contretremps in future. Cases of doubt could, with due propriety, be dealt with by the Poisons Board. On any point of doubt a recommendation by the Board to the Home Office should set the matter on the way to rectification.

Quinine Position

UNDER a recent Order (see p. 127), control over the supply of cinchona and cinchona products and of synthetic antimalarials by the Minister of Supply has been discontinued. The control was instituted in August 1942 after the Japanese invasion of Java. The use of quinine and related preparations was then restricted primarily to the treatment of malaria, and the disposal of stocks of more than 25 oz. held by chemists was controlled by the Director of Medical Supplies. All restrictions on the use of quinine in Great Britain have now been removed—following, no doubt, an improvement in the supply position and the increasing use of such synthetic antimalarials as mepacrine and pamaquin.

The amount of cinchona bark imported in the first six months of 1947 for the use of British quinine manufacturers was 6,098 cwt., more than three times the amount imported in the corresponding period of 1946, although only about 75 per cent. of the pre-war figure. Imports of quinine and quinine salts, however, showed a marked improvement, and in the first six months of 1947 amounted to 1,086,158 oz. against 802,300 oz. in the first half of 1938.

Despite the improved position, control over the export of all cinchona alkaloids and their salts (except cinchonidine and its salts) is being continued, no doubt as a precautionary measure, but the need for licences to export preparations containing such alkaloids or salts (e.g., galenicals such as liq. quinin. ammon. or manufactured proprietaries) was removed by the Board of Trade on June 9 (see *C. & D.*, June 7, p. 642).

Berlin's Chemical Industry

BERLIN'S chemical industry, which before the war ranked fourth, behind electrical products, engineering and clothing, for exports, has so far recovered as to employ 19,000 workers in 750 firms active in the various branches. First in order of importance is the pharmaceutical industry. The 250 firms on the register in the city area have 3,500 workers on their pay-rolls, and their monthly turnover is between six and seven million marks. Trade experts emphasise that this turnover is not an exact

indication of the amount of trade passing; the high tax on alcohol means high prices all round. Alcohol taxes also vitally affect the cosmetics branch, where 2,300 workers are employed by 350 firms, averaging a monthly turnover of approximately £2,000,000 marks. This turnover is almost five times more than the pre-war figure; but the output is not, of course, five times as big, owing to the rapid rise in costs and prices. Face lotions, hair lotions and perfumes are again being marketed, though German women find that their price puts them all in the high luxury class often beyond their means.

Half-Year's Exports

THE recently published accounts relating to the international trade of the United Kingdom in June provides export totals for the first six months of this year and comparative figures for the corresponding period of 1946. The aggregate of Britain's exports in all classes of merchandise rose during the month of June to £93.1 millions compared with £89.7 millions in May, the June total being the highest since the end of the war. The aggregate value of our shipments for the half-year amounted to £515,047,934, against £407,132,253 in the first six months of 1946.

The value of exports of the chemicals group in June, the highest since the end of 1946, amounted to £5,581,832, bringing the half-year's total up to £30,974,632; this latter value is rather lower than that for the corresponding period of 1946, when shipments were valued at £31,695,027. To the June chemical exports, drugs and medicines contributed £1,177,777, and the half-yearly total for this section exceeded the 1946 comparative total by over £1,243,000 which gives some indication of the high-level of the world demand for British medicinal products. In this group, exports of quinine and quinine salts were valued at £106,986 for the six months, which was nearly double the January-June total for 1946. Totals for other items in this section for the first six months of the current year, giving the comparative totals for 1946 in parentheses, were as follows: Proprietary medicinal products, £2,480,363 (£2,090,391); acetylsalicylic acid, £224,495 (£280,264); ointments and liniments,

£238,043 (£221,001); other medicines, £3,236,498 (£2,842,750). In the six months, over 626,000 mega units of penicillin were dispatched, valued at £446,082; there are no published figures for the corresponding period of 1946. Re-exports of chemicals were lower on the half-year, amounting to £300,056 (£426,162), but here again an increased demand was shown for medicinal preparations which totalled £120,100 (£88,246). India continues to be the most important market for British medical products, with imports, £864,475 in the first six months of 1947 against £414,089 during January-June, 1946.

Perfumery and toilet preparations (excluding perfumed spirits, essential oils and soap) exported in June were valued at £294,467 and the half-yearly total amounted to £1,521,778 (£1,738,246). In the first six months of 1947, £201,116 worth of tooth-pastes and powders, and other preparations for dental use, were shipped, while exports of cosmetics accounted for £659,233; these totals were lower than those for the similar period in 1946, which amounted to £329,344 and £812,612, respectively. The reasons for the decline are the unfortunate stoppage of production which occurred early in the current year together with the growing competition from foreign producers. Exports of toilet soap have shown a similar decrease. Toilet brush sales were maintained at a high level, exports of shaving brushes reaching £66,834 in the first six months of this year, and tooth and dental plate brushes £106,043. Exports of hair brushes and other toilet brushes, excluding shaving and tooth-brushes, etc., rose to £160,127 against £86,520 in the 1946 period.

There has been a falling-off in the overseas demand for surgical and medical dressings, exports of which amounted to £237,517 (£372,738), but an increase is recorded in shipments of cotton wool and gauze tissues, which totalled £195,829 (£153,495). Exports of surgical and medical plasters totalled £262,585 (£199,795), and other miscellaneous druggists' wares, £193,534 (£318,039), for the two six-month periods.

EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Chemist and Druggist Qualifying Examination held in England and Wales in June:—

Adams, Pauline, Midsomer Norton.
 Anderson, Alan, Blackburn.
 Astbury, Margaret Doreen, Old Hill.
 Astbury, Stanley George, Stoke-on-Trent.
 Bailey, John Henry, Southall.
 Banfield, Mary Hilary, Newport, Mons.
 Batten, Harry, Exeter.
 Bevan, Megan, Llanelly.
 Billingham, Margaret Joyce, Northampton.
 Blower, Alfred Lawton, West Bridgford.
 Bolam, John Clement, Birtley.
 Bradley, Derek Frank, Worcester.
 Brady, Philip, South Shields.
 Brinton, Thomas Lawson, Birmingham.
 Brocklehurst, Walter Edwin, Wolverton.
 Budworth, Eric, Wigan.
 Carless, Douglas Arthur George, Bourne-mouth.
 Caswill, Arthur Hellier, Exeter.
 Chapman, Anne Sheila, Putney Hill.
 Cohen, Abram, Manchester.
 Cohen, Neville, Cheetham.
 Cole, Marjorie Annie, Berkeley.
 Copeland, Maurice, Manchester.
 Cox, Celia Grace, Linslade.
 Crawshaw, Roger Kay, Ramsbottom.
 Cutcliffe, Charles Frampton, Torquay.
 Damp, Doreen Joyce, Newport, Mons.
 Derbyshire, George, Bolton.
 Evans, Leslie, Wrexham.
 Falkingham, Margaret Brook, Keighley.
 Farlow, Stuart Johnson, Torquay.
 Fillis, Yvonne Eleanor, Oxford.
 Gale, William Geoffrey, Bristol.
 Gear, Dennis Victor, Peckham.
 Glen, William, Gosport.
 Grant, Margaret Patricia, Kidderminster.
 Green, Alan William, Coventry.
 Gregory, Harry, Blackburn.
 Griffiths, Betty May, Nottingham.
 Harle, Olive Ruth, Portsmouth.
 Haworth, Philip John, Bolton.
 Holden, Harold Edward, Oldham.
 Hopkins, John Ronald, Swansea.
 Jackson, Kathleen Mary, Stourbridge.
 Jeffery, Robert Stanley, Maidstone.
 Johnson, Harold Francis, Reading.
 Kearsley, Stephen, Rochdale.
 Laffoley, Kenneth Philip, Jersey.
 Lee, Douglas Kingston, Cowes.
 Light, Kenneth, Bath.
 Lines, Eileen Mary, Norwich.
 Lewis, Geoffrey Richard, Lincoln.
 Lund, Sheila Margery Lily, Manchester.

McKenzie, Hilda, Aberdare.
 Mail, Gerald, Huddersfield.
 Manning, Eric Charles John, Ipswich.
 Marklew, Hazel Yvonne, Birmingham.
 Mitchell, Albert Ernest, Islington.
 Morgan, Beryl Joan, Stafford.
 Morrell, Irene Eugenie, Addlestone.
 Morris, Louis, Manchester.
 Nixon, Margaret Jean, Pennington.
 Nutt, Geoffrey William, Bristol.
 Painter, James Frank, Cheltenham.
 Partridge, Albert Sidney, Dover.
 Phillips, David, Tonyrefail.
 Quinn, Stowell Hugh, Blackpool.
 Reed, Ronald Maurice, Hove.
 Rees, Emlyn, Bridgend.
 Reynolds, Victor Kenneth, Lowestoft.
 Richards, Trevor John, Gorseinon.
 Richardson, Helen M. R., Saxmundham.
 Ridout, Cyril William Thomas, Epsom.
 Roberts, Edward Leslie, Risca.
 Rose, Cynthia Rachel, Cardiff.
 Ruston, Herbert Thomas, Birmingham.
 Sammons, Muriel Ethel, Birmingham.
 Sanders, Marjorie May, Beckenham.
 Scott, Burnett Smith, Hornsea.
 Selwood, Harold Herbert, Lampeter.
 Sewell, Hazel Marjorie, Yardley.
 Simpson, Gordon, Burnley.
 Slack, Harry Repton, Shoreham.
 Smith, Elisabeth Maude, Kenilworth.
 Staniforth, Eleanor Ray, Lincoln.
 Stanley, Jean Margaret, Nottingham.
 Stubbs, Doreen Mabel, Hull.
 Surtees, Derek Millard, Chipping Norton.
 Thomson, Jean Estelle, N. Watford.
 Thorne, Eric Gordon, Leominster.
 Tilley, Frederick Norman, Lambeth.
 Tilton, Ralph, Liverpool.
 Tompkins, Phyllis Evelyn, Fordingbridge.
 Tucker, Hilda Mary May, Molesey.
 Whiteley, Robert Henry, Huddersfield.
 Williams, Maurice James, Torquay.
 Williams, Nesta, Rhostryfan.
 Williams, Sydney, Llanelly.
 Woodhead, Peter Lomax, Walsall.
 Woods, Kathleen Jeanne, Bristol.
 Yeates, Colin Edward, Cheltenham.

Fluorine and Dental Caries. — In Sweden the incidence of dental carie decreased considerably during the war, the decline ranging about 15 per cent. The lowest incidence has been found to occur in the provinces round Lake Mälär, in central Sweden, where the drinking water contains fluorine. — "British Medical Journal."

CORRESPONDENCE

Pharmacists' Soap Supplies

SIR,—Further to my recent letter on the above subject (see *C. & D.*, June 21, p. 25), I believe a system of credit balances like a bank overdraft is being worked with wholesalers, to be repaid in, say, six months. All the situation demands is to introduce a similar system for retailers. This would overcome the trouble caused in 1946 by making chemists' non-coupon soaps subject to coupons.

Crewe. J. MAJOR.

Titles on Drug Jars

SIR,—I enclose a photograph of two drug jars which are in my possession, and in which some of your readers may be interested. They are of Dutch origin, and date



to the seventeenth century. Each is about 13½ in. high, and as you will see the titles are "E. Theriac. And." and "E. Req. Pueror." Can you tell me what these titles would be in full?

St. Andrews. A. W. KEITH.

[The E. (for electuary) was superfluous, at any rate in England, as the title of the galenical was Theriaca Andromachi (see Wootton's "Chronicles of Pharmacy" II.39). Possibly the first owner of the jars had a series of electuaries and wished each label to begin alike. Theoretically it would be possible to have an electuary containing Theriaca Andromachi and anything else the prescriber fancied, but it would be a monstrosity. The other designation should stand for "liquorice electuary for children."

Requillitia is mediæval Latin for liquorice (compare the French réglisse); and the genitive plural "puerorum" is no doubt an instance of what grammarians call the objective genitive. The preparation may, of course, have been local or even proprietary. In the Pharmacopœia Almeriana, 1723, there is a Requies Puerorum (repose for children), containing opium as an ingredient. Probably the preparation was a sort of parallel to Godfrey's cordial.—EDITOR.]

Long Titles

SIR,—Considering the staff difficulties that face the chemist at the present time, it seems a pity that some of the wholesale houses do not make an effort to save their customers a great deal of time and trouble by condensing their business names into one easily written and remembered name of a few letters. Every chemist who has to do his own accounts or the assistants who do this work will know only too well how irksome it can become to write names that are equal in length to, say, Messrs. Williams, Wilberforce & Whiteman, Ltd., and there are a number of such length in the drug trade. To write such names once might not be regarded as too irksome, but when they have to be written in the account book, on the cheque, and then on the envelope, the whole business becomes extremely irritating. A short name could be coined bringing in a portion of each name where several are involved. To do so would surely earn additional goodwill from retail customers and make less work for office staffs.

PHARMASSISTANT.

FIFTY YEARS AGO

Quinine at 9d. Per Ounce

(From the *C. & D.*, July 31, 1897)

SOME small sales are reported at 9d. per oz. for second-hand German brands (B and S or Brunswick). The market is quite steady. Today there are further buyers at 9d. per oz., but apparently no sellers in second-hand. We understand that the price of the Amsterdam brand of quinine has been raised to 9½d. per oz., but other manufacturers have made no change, although some of them are practically out of the market. A circular has been issued stating that the agency for Zimmer's quinine has been placed in the hands of the firm of Wiedenmann, Broicher & Co.

OVERSEAS TRADE NEWS

Whale Oil Factory in Morocco.—A new whale oil factory was recently opened in the Bay of Benza, not far from Ceuta, Spanish Morocco.

French Penicillin Production.—The penicillin plant of the Société Française de Glycerine is expected to commence production shortly. No details or estimated production are to hand yet.

Streptomycin Variety.—Merck & Co., Inc., Rahway, New Jersey, U.S.A., recently announced a new form of streptomycin, said to be less painful in injections than forms hitherto supplied. The new product is combined with calcium chloride.

Spanish Saffron Exports.—During the 1946 season, Spain exported twice as much saffron as was shipped from the country in 1945. Producers sold 17,000,000 kilos, valued at more than 13,000,000 pesetas, to thirty-one countries, with France and India the main recipients.

Czechoslovak Soap Production.—Czechoslovak soap factories are to produce 30,000,000 cakes of soap and 7,000,000 kilos of washing powder in the period July 1 and September 30 to cover an increased soap ration. The ration is now 100 gm. of soap, one tablet per month.

Russian Women Buy More Perfumes.—Demand for perfumes and cosmetics in Russia has risen greatly since the war, according to Tatyana Morozova, General Director of the Soviet cosmetic and perfume industry, who said that Soviet women were fastidious and demanded a high quality in perfumes, powders, and other cosmetics.

Swiss Foreign Trade.—Swiss dye exports in the first six months of 1947 rose to 116.4 million francs from 76.5 million francs, pharmaceutical chemicals to 116.8 from 77.8, and other chemicals to 44 from 21.5 million francs. Imports of pharmaceutical chemicals rose to 26.2 million francs from 16.7 million.

Bill to Protect Vegetable Oils in Egypt.—The Egyptian Ministry of Commerce and Industry is drafting a legislation with a view to protecting local vegetable oils against increasing foreign competition. It is believed that this protection bill will take the form of an increase in the import duties of this commodity.

Soapless Soaps in the U.S.—Several soapless soaps and detergents manufactured from petroleum are now in course of pro-

duction in the United States. Total production of soapless soaps, of all kinds, in the U.S. during 1947, is expected to reach 150,000 metric tons, compared with estimated domestic soap production of 2,000,000 metric tons.

French Chemical Production.—Industrial chemical production in France during April included the following (1938 monthly average in brackets): Sulphuric acid 94,000 tons (106,000 tons); sodium carbonate, 45,000 tons (40,000 tons); caustic soda, 12,000 tons (9,500 tons); chlorine 5,000 tons (3,924 tons); sodium sulphate 5,000 tons (5,000 tons); hydrochloric acid 8,000 tons (10,000 tons).

Chemical Industry in Russian Zone.—Penicillin production by the firm Lessing & Co., in Erfurt, is progressing well. The firm is also engaged in the manufacture of disinfectants, cleansing materials, laboratory chemicals, perfumes, cosmetics, bath salts, etc. The "A.G. Former Louis Blumer Works" has resumed production of synthetic resin. Dismantling of the Solvay works in Bornburg, largest soda manufacturers in Europe, has had a detrimental effect on the industrial development of the whole area. The Solvay works used to produce daily 1,000 tons of soda and 400 tons of caustic soda, and employed a total of 10,000 workers. Dismantling of the works is not yet completed and it is still possible that the works might be rebuilt.

Canadian Chemical Industry's Expansion.—The extent of the expansion of Canada's chemical industry is described in a series of articles appearing in the Canadian Department of Trade and Commerce journal "Foreign Trade," commencing with an introductory article in the issue of May 24. This first article gives statistics of production costs in the various sections of the industry and an analysis of the Dominion's imports and exports of chemicals in the main groups. Preliminary estimates for the year 1946 show that 213 plants were engaged in the manufacture of "medicinals and pharmaceuticals," employing an aggregate of 8,050 employees. The salaries and wages total for this section of the industry amounted to \$13,114,000, while the cost of fuel and electricity at works, and the cost of materials at works totalled \$423,000 and \$23,467,000 respectively. The gross selling value of the products at works amounted to \$64,186,000.

TRADE REPORT

Not quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

8 Essex Street, W.C.2, July 30

THE market for PHARMACEUTICAL and FINE CHEMICALS was somewhat quiet during the past week and business was largely of a routine character. Prices were maintained at previously quoted levels. QUININE and its salts, other CINCHONA products, and synthetic substitutes, are now free from control by the Minister of Supply (see p. 27). It is understood that demand for quinine is well ahead of supplies and there are few signs that there will be an improvement in the supply position in the near future of British-manufactured material.

Crude Drugs

Only a small amount of business has been transacted in the London market for CRUDE DRUGS during the past week and some time must elapse before there will be a renewal of large-scale buying for winter requirements. Meanwhile prices generally continue at the levels given last week. CAPE LOES for shipment is slightly easier. English-grown BELLADONNA HERB is in request and may be bought at 6s. per lb. CASCARA AMOMIS is a very dull market. CASCARA AGRADA continues firm and so does IPEACUANHA; it is difficult to get forward offers for the latter from Nicaragua. Prices of SENEGA are rising in Canada. There has been a fair business done in the better grades of SENNA PODS and LEAVES. WAXES are a steady market.

Essential and Expressed Oils

Quotations for the majority of ESSENTIAL OILS are unchanged. Lime is easing a little on the spot and LAVANDIN is shading forward. It is understood that importation of ALMOND OIL (SWEET) has ceased; wholesale prices of almonds have increased and the oil is quoted at higher values.

U.S. Drug and Chemical Report

New York, July 25

FEATURING the markets this week was a reduction of 10 cents per lb. in the price of MENTHOL, which followed the unexpected arrival of 50 tons of material from Brazil bringing total stocks here to about 75 tons. The quotation is now \$8.00 per lb. compared with \$8.10 to \$8.30 last week and \$8.50 to \$8.75 a fortnight ago. The U.S. Industrial Chemicals, Inc., has announced a two cent reduction in its prices for ACETONE. Limited numbers of export licences are being granted for small amounts of GLYCERIN (5,000 lb. or less) but approval of requests for larger amounts is likely to be difficult to obtain. Notable imports into the U.S. include a consignment

ment of more than 1,250 drums of METHYL ALCOHOL from the United Kingdom, a shipment which it is thought will be the first of several. Declared imports into the U.S. from China of medicinal and pharmaceutical preparations advanced nearly 200 per cent. in April from the March levels, being valued at \$327,200, compared with \$109,400 in the previous month.

Consumers continue to display little interest in CRUDE DRUGS for prompt delivery and many price declines were evident last week. The U.S. Commercial Co. is to offer a further 250 bales of Japanese AGAR and 22 drums of FISH-LIVER OIL on a sealed bid basis. Only bids for 30 bales and over for the former will be accepted and the price offered must not be below \$2.40 per lb. The previous sale of Japanese agar on a sealed bid basis produced a lowest bid of \$2.71 and a maximum of \$2.96.

The price trend of the market for ESSENTIAL OILS and other AROMATIC PRODUCTS was again downward last week, due mainly to increased supplies of the former and an improvement in the output of the latter.

Pharmaceutical Chemicals

ALLOBARBITONE.—Current price for 10-kilo lots is 90s. per kilo; smaller quantities are quoted at 99s. per kilo.

AMIDOPYRINE.—Quotations are firmly held at from 50s. to 60s. per lb., according to quantity.

BISMUTH SALTS.—Makers' quotation for CARBONATE in 1-cwt. lots is at 14s. per lb. Schedule rates for smaller quantities are from 15s. 8½d. per lb. upwards. CITRATE is 2d., SALICYLATE 1s. 4d., and SUBNITRATE 2s. 7d. per lb. below the above prices; SUBGALLATE is 2s. more than the carbonate.

CHLORAL HYDRATE.—Current rates are as follows: 28 lb., 4s. 8d. per lb.; 14 lb., 5s.; 7 lb., 5s. 3d.; less than 7 lb., 5s. 9d. per lb.

CHLOROCRESOL.—Quotations are maintained at from 4s. to 4s. 6d. per lb.

CHLOROFORM.—Current rates are as follows: 1-cwt. lots, in Winchester quarts, 2s. 11d. per lb.; 56 lb. lots, 2s. 11½d. per lb.

CINCHOPHEN.—Prices are from 35s. to 40s. per lb., according to quantity.

CITRATES.—Makers' prices are steady. POTASSIUM, in quantities of 28 lb.-1 cwt., is quoted per lb. as follows (containers in brackets): 3s. 8½d. (1-lb.); 3s. 7d. (4-lb.); 3s. 6d. (7-lb.); 3s. 5½d. (14-lb.); 3s. 4½d. (28-lb.). FERRI ET AMMON. CIT., B.P., 4d. per lb. above. SODIUM, B.P., 4d. per lb. below; POWDER, 1d. per lb. extra.

COBALT SALTS.—Makers' quote BROMIDE at 16s. per lb. and IODIDE at 45s. per lb.

COCAINE.—The current schedule is as follows: ALKALOID, B.P., $\frac{1}{4}$ oz., 50s. 10d. per oz.; $\frac{1}{2}$ oz., 47s. 9d.; 1 oz., 46s. 2d.; 2 oz., 44s. 11d.; 4 oz., 44s.; 8 oz., 43s. 5d.; 9 oz. and more but under 16 oz., 41s. 7d.; 16 oz. but under 25 oz., 40s. 4d.; 25 oz. and over, 39s. 1d. **HYDROCHLORIDE**, B.P., $\frac{1}{4}$ oz., 47s. 3d.; $\frac{1}{2}$ oz., 44s. 2d.; 1 oz., 42s. 7d.; 2 oz., 41s. 6d.; 4 oz., 40s. 7d.; 8 oz., 40s.; 9 oz. and more but under 16 oz., 38s.; 16 oz. but under 25 oz., 36s. 10d.; 25 oz. and over, 35s. 8d.

CODEINE.—Current prices per oz., in the home market, are: ALKALOID, $\frac{1}{2}$ oz., 51s. 9d.; 1 oz., 49s. 3d.; 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. **HYDROCHLORIDE**, $\frac{1}{2}$ oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; $\frac{3}{4}$ oz., 41s. 9d.; 4 oz., 41s. 6d. **PHOSPHATE**, $\frac{1}{2}$ oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. **HYDROBROMIDE** and **IODIDE** as ALKALOID; **SULPHATE** as **HYDROCHLORIDE**.

CREAM OF TARTAR.—British makers recently announced lower prices, as follows: 10-cwt. lots, 201s. per cwt.; 5-cwt., 202s.; 3-cwt., 203s.; 1-cwt., 205s.

CREOSOTE.—B.P. quality, ex beechwood, quoted at from 7s. 6d. per lb. upwards.

CRESOL.—Controlled price of B.P. quality from distillers is 4s. 6d. per gall., ex sellers' premises.

DIAMORPHINE.—Prices per oz. are: ALKALOID, $\frac{1}{2}$ oz., 54s. 6d.; 1 oz., 52s.; 2 oz., 50s. 6d.; 3 oz., 49s. 9d.; 4 oz., 49s. 6d. **HYDROCHLORIDE**, $\frac{1}{2}$ oz., 50s. 3d.; 1 oz., 47s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; 4 oz., 45s. 3d. per oz.

GUAIACOLS.—Liquid is quoted at 14s. 6d. to 16s. per lb.; crystal and carbonate, 14s. to 15s. per lb., according to quantity.

MANDELIC ACID.—Current prices are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

MERCURY SALTS.—Makers' rates per lb. are as follows: **AMMONIUM CHLORIDE**, B.P. powder, 9s. 9d.; lump, 9s. 7d. **BICHLORIDE**, B.P., powder, 8s. 4d.; lump or granular, 8s. 11d. **MERCURIUS CHLORIDE**, B.P., 9s. 10d. **RED OXIDE**, B.P.C., 10s. 6d. **YELLOW OXIDE**, B.P., 10s. 6d. 7-lb. lots are 6d. per lb. less than above prices.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

PROCAINE HYDROCHLORIDE.—Current quotations are at from 42s. 6d. to 45s. per lb.

PYROGALLOL.—Current rates are as follows: 1-cwt., 21s.; 56-lb., 21s. 6d.; 28-lb., 22s. 6d. per lb. Resublimed, 4s. per lb. above these rates. Prices are net.

THYROXINE-SODIUM.—Makers' prices per gm. are as follows: 1 gm., 50s.; 10 gm., 45s.; 100 gm., 40s.

VANILLIN.—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 2s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb.

Crude Drugs

ALOE.—Cape, in boxes, is offered at 175s. to 180s. per cwt., spot; shipment 160s., c.i.f. Curaçao, in boxes, is quoted at 235s., spot; forward, 215s. to 220s. c.i.f. Socotrine is quoted at 156s. to 190s. per cwt., according to quality.

ANISE (STAR).—Supplies on the spot are offered at 130s. per cwt.; forward, 95s. c.i.f.

ARECA NUTS.—Little interest has been shown; Ceylon is offered at 65s. to 67s. 6d. per cwt., according to holder.

ASAFTIDA.—Spot supplies of block are quoted at £25 to £28 per cwt., according to quality and seller.

BALSAMS.—Spot quotations for *Canada* are maintained at 15s. per lb. *Para Copaiba*, spot, is quoted at 8s. per lb. for soluble and 7s. 3d. for insoluble. *Peru* is available at 7s. 3d. per lb., duty paid. *Tolu* is steady at 18s. per lb., spot.

BELLADONNA.—Spot. Root with a test of 0.515 per cent. is offered at 6s. per lb. English herb (cut) is available at 6s.

BENZOIN.—Sumatra, in fair supply, is available on the spot at from £17 10s. to £22 per cwt., according to quality.

BUCHU.—New-crop short rounds, steady at 4s. 3d. per lb., spot; shipment, 4s., c.i.f. Old-crop rounds, f.a.q., is available at 3s. 11d. per lb., spot.

CALABAR BEANS.—Supplies in Liverpool are offered at 10½d. per lb., ex warehouse.

CAMPHOR.—Firm. Chinese tablets ($\frac{1}{4}$ -oz.) quoted at 11s. 3d. to 11s. 6d. per lb., spot; refined powder (B.P.), 11s.; Formosa (B.B.), 10s. 3d.; 2½-lb. slabs, afloat quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude, 93-95 per cent., 7s. per lb.

CANTHARIDES.—Chinese, on the spot, is quoted at 15s. per lb.

CAPSICUMS.—East African, steady at 120s. to 140s. per cwt., according to quality.

CARDAMOMS.—Very little demand in this market. Mangalore, half-bleached, A's, are quoted at 8s. 9d. per lb.; B's, 8s. 3d. per lb.; seeds, 7s. 9d. per lb., spot. Aleppy seeds, No. 1, offered at 8s. per lb.; Aleppy greens, 7s. per lb., spot.

CASCARA SAGRADA.—1946 peel is offered at 250s. per cwt., duty paid. American new-crop is quoted at 215s. per cwt., landed, duty paid.

CASCARILLA.—Continues quiet with prices unchanged. Quills are at 1s. 10d. and siftings at 1s. 6d. per lb., spot.

CASSIA PODS (C. fistula).—East Indian, quoted at 75s. to 80s. per cwt., ex wharf.

CHAULMOOGRA.—*Hydnocarpus*, in tins in cases, is quoted at 1s. 11d. per lb., spot.

CHILLIES.—Quiet. Mombasa, quoted at 165s. per cwt., spot; Nigerian, 130s., spot; Japanese-type, 190s. to 200s.

CLOVES.—Zanzibar, quoted at 9½d. per lb., spot. Penang, offered at 3s. to 3s. 6d.,

COCHINEAL.—Silver greys, quoted at 3d. to 4s. 6d. per lb., spot; blacks, 5s. 6d. per lb.

COLOCYNTH.—Quiet. Spot, fine-white is offered at 2s. and medium-white at 1s. 10½d. per lb.

DIGITALIS.—Portuguese is steady at 30s. per cwt., spot; English-grown, 2s. 6d. per lb.

DRAGONS BLOOD.—Singapore is offered at prices from £80 to £85 per cwt., spot; cond-grade material is available at £65 per cwt.

ERGOT.—Spot, quoted at 4s. 9d. to 5s. per lb.; forward, 4s. 6d., c.i.f.

EUPHORBUM.—Firm; spot quotations are in the region of 85s. to 90s. per cwt.

GAMBOGE.—Spot, Siam pipe is quoted at 30 per cwt., duty paid.

GENTIAN.—French natural root, on the spot, is quoted at 100s. per cwt.; cut, 130s. per cwt.

GINGER.—Jamaican is steady with prices for No. 1 from 110s. per cwt., spot. No. 2 is quoted at 100s. to 105s.; No. 3, 90s., to 5s. Sierra Leone, on the spot, is at 65s. per cwt.

GUAIACUM RESIN.—Lump is offered at 9s. 9d. per lb., ex warehouse London.

GUM ACACIA.—Quotations for Kordofan bleached sorts are at 72s. 6d. per cwt., ex store; shipment 66s., c.i.f. Bleached No. 1 is quoted at 145s., ex store, and Talha at 10s. per cwt., spot; forward, 37s. 6d., c.i.f.

IPECACUANHA.—Spot, Nicaraguan root is firm at 27s. per lb. Colombian root for shipment is quoted at 22s. 6d., c.i.f.

MENTHOL.—Brazil, on the spot, is steady at from 44s. to 45s. per lb., duty paid; forward, 39s. to 40s., c.i.f. Chinese, in original grades, 50s. to 52s. 6d. per lb., duty paid.

NUX VOMICA.—Madras, steady at 40s. to 42s. 6d. per cwt. Mangalore, 40s.; Cochin, scarce, 42s. 6d. to 45s., spot, as to seller.

OLIBANUM.—Fair to good drop is quoted from 200s. to 240s. per cwt.; pea size, 220s.; good garblings, 180s.; seeds, 175s.; siftings, 110s.

ORANGE PEEL.—Spot quotations for Spanish quarters are at 1s. 6d. per lb.; sweet ribbon is quoted at 1s. 9d. per lb. Bitter ribbon is quoted at 1s. 3d. per lb., spot, Liverpool.

PEPPER.—Spot: Indian black, whole, 2s. to 2s. 2d. per lb., spot; ground, 2s. 2d. to 2s. 4d. White, whole, unquoted; ground, 3s. 10d. to 4s., spot.

QUINCE SEEDS.—Cape, on the spot, is offered at 6s. 9d. per lb.

RHUBARB.—Spot quotations for Chinese rough round are from 6s. to 8s., according to fracture; forward, from 4s. 6d. to 6s. 6d., c.i.f. Poorer quality, some of which is wormy, is available on the spot at prices from 4s. 9d. to 5s. 6d. per lb. French rhabarber is quoted at 2s. per lb., spot.

SEEDS.—A small inquiry has been received during the past week. **ANISE.**—Cyprus, quoted at 2s. 3d. per lb., spot London or Liverpool. **CELERY.**—Indian, 1s. 4d. per lb., spot Liverpool. **CARAWAY.**—Dutch is offered at 1s. per lb., duty paid, spot London; new crop for August-September shipment quoted at 80s. per cwt., f.o.b. Amsterdam. **CORIANDE.**—Spot, Morocco, 45s. per cwt., duty paid; Argentine, 43s. per cwt., duty paid in Liverpool; English, nominal, 75s. per cwt.; Morocco new crop, for August shipment, quoted at 44s. per cwt., c.i.f. **CUMIN.**—Spot, Indian, 235s. per cwt., ex wharf London or Hull; Cyprus, 235s. per cwt. in London. **DILL.**—Indian, 42s. 6d. per cwt., spot London and 40s. per cwt. in Liverpool. **FENNEL.**—Indian, 97s. 6d. per cwt., spot London or Liverpool. **FENUGREEK.**—Indian, 45s. per cwt., spot London and 42s. 6d. in Liverpool.

SENEGA.—Spot quotations for old-crop material are from 11s. to 11s. 6d. per lb. New-crop is offered at source at 10s., c.i.f.

STRAMONIUM.—Indian leaf is quoted at 75s. per cwt., on the spot; Hungarian leaf, 115s., spot.

TONKA BEANS.—Frosted Pará is offered at 4s. 9d. per lb., spot.

VALERIAN.—Belgian root is at 190s. to 220s. per cwt., according to holder.

Essential and Expressed Oils

ALMOND.—B.P., expressed from sweet almonds, is quoted at 9s. to 12s. per lb., according to seller. Essential oil, to come forward, is quoted at 25s. to 27s. 6d. per lb.

BAY.—West Indian is steady on the spot at 8s. to 9s. per lb.

CADE.—Spot quotations are at from 4s. to 5s. 6d. per lb., according to quantity.

CASSIA.—Not much available. Spot quotations are from 17s. to 18s. 6d. per lb., as to quantity.

CASTOR.—Controlled prices are unchanged: Firsts, £180 per ton; seconds, £176, naked ex works.

CINNAMON LEAF.—Spot supplies are quoted at from 11s. 6d. to 13s. 6d. per lb.

CITRONELLA.—Spot quotations for Ceylon are unchanged at from 7s. to 8s. per lb.

CLOVE.—English-distilled bud oil is steady at 11s. 6d. to 12s. per lb., according to quantity.

LAVANDIN.—Spot quotations are from 11s. 6d. to 15s. 6d. per lb., according to seller.

LIME.—West-Indian distilled oil is quoted at 31s. to 34s. per lb., spot, according to seller.

VETIVERT.—Java is quoted at 135s. per lb., on the spot; Bourbon is at 180s.

YLANG YLANG.—Scarce. Quotations are in the region of 100s. per lb.

TRADE MARKS

(From "The Trade Marks Journal," July 9)

"CHEFARO" in distinctive lettering on oval design; for all goods (1) (5). By Chefaro Chemische Fabriek "Rotterdam," 8 Keileweg, Rotterdam, Holland. 648,122-23 (Associated).

"BALNEODOR"; for toilet preparations (not medicated) (3) and pharmaceutical preparations (5). By Carlton Laboratories, Ltd., 1-5 Joiners Arms Yard, Denmark Hill, London, S.E.5. B639,344-45 (Associated).

"VEGA"; for toilet preparations (not medicated), cosmetic preparations, perfumes, perfumed soap and preparations for the teeth and hair (3). By Guerlain, Ltd., Corner of Aintree and Frazer Roads, Perivale, Middlesex. 643,400 (Associated).

"CONSENT"; for perfumes, essential oils, toilet preparations (not medicated), cosmetic preparations, hair lotions, dentifrices and soaps. By W. Ryder & Co., St. Andrews Works, Bradford, Yorks. 646,787.

"GERMAX"; for cleaning, polishing and waxing preparations for the treatment of floors and similar surfaces (3); and "DEMOP"; for disinfectants, antiseptics, deodorants, bactericides, germicides, insecticides, and preparations for destroying vermin (5). By G. H. Wood & Co., Ltd., 323 Keele Street, Toronto, Ontario, Canada. 646,804 and 646,806.

"SHASTIA"; for perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other Classes), sachets for use in hair-waving, soaps, and essential oils (3). By Thomas Hedley & Co., Ltd., Phoenix Buildings, Collingwood Street, Newcastle-on-Tyne. 647,292.

"FLUORDENT"; for dental cleaning preparations (not medicated) (3). By A. Ibbetson & Co., Ib-co Works, Great North Road, Stevenage, Herts. 647,359.

"POLYBOR"; for soap and washing compounds (3). By Borax Consolidated, Ltd., Northgate House, 20-24 Moorgate, London, E.C.2. 647,398 (Associated).

"PAZAN"; for perfumes, toilet preparations (not medicated), cosmetic and depilatory preparations, dentifrices, toilet articles (not included in other Classes), sachets, impregnated pads and lotions, all for use in waving the hair, soaps and essential oils (3). By Truefitt & Hill, Ltd., 23 Old Bond Street, London, W.1. 647,709.

"FINIDOLINE"; for medicinal preparations for human use (5). By Laboratoires Salvozy, 59 bis Quai de Rochecorbon, Rochecorbon (Indre-et-Loire), France. 612,097.

"GEIGY DDT" in distinctive designs (letters DDT disclaimed); for preparations of dichlorodiphenyl-trichlorethane for use in repelling and destroying vermin; and "PARPANIT"; for pharmaceutical preparations for human and veterinary use, sanitary substances, anti-lice powders, medicated ointment, medical and surgical plasters, material prepared for bandaging, and disinfectants (5). By J. R. Geigy Société Anonyme, also trading as J. R. Geigy Aktien-Gesellschaft, 215 Schwarzwaldallee, Basle 16, Switzerland. B636,127, B636,128 and 647,654.

"SUCRETS"; for medicated antiseptic lozenges for oral use (5). By Sharp & Dohme, Ltd., Brocket Road, Hoddesdon, Herts. 645,08 (Associated).

"NUTRI-SAL"; for pharmaceutical douche powder containing chemical salts (5). By Johnson & Johnson (Gt. Britain), Ltd., 603 Bath Road, Slough, Bucks. 645,760.

"ERGENYL"; for pharmaceutical tonic preparation (5). By Laboratoire Dipharma, 140 Avenue Gabriel Peri, Malakoff (Seine), France. 646,270.

"SORBUSOL"; for all goods (5). By Peter Spencer & Sons, Ltd., National Buildings, St. Mary Parsonage, Manchester, 3. 647,238.

"ABADOL"; for pharmaceutical products having anti-thyroidian action (5). By Société des Usines Chimiques Rhône-Poulenc, 21 rue Jean Goujon Paris VIIIe, France. 647,644.

"GEROMA"; for disinfectants, weed-killers and vermin-destroyers (5). By Stropex, Ltd., 1a New Street, Bishopsgate, London, E.C.2. 648,044.

Device of hair clippers with wings (device of hair clippers disclaimed); for hair clippers (8). By Burman & Sons, Ltd., Ryland Road, Birmingham 15. B647,466.

"TETT'S"; for water-softening apparatus (11). By G. S. Tett & Co., Ltd., 32 Queen Victoria Street London, E.C.3. B646,023.

APPLICATION AMENDED AFTER OPPOSITION.
Specification of No. 640,990 by N. V. Organon should be altered so as to read, "Progestational substances sold for oral administration."

(From "The Trade Marks Journal," July 16)

"HOMODAN" and "CREMODAN"; for chemical substances for use as emulsifying, dispersing or water-binding agents in the course of manufacture (1). By Aktieselskabet Grindstedvaerket Grindsted, Denmark. 609,919, 611,289 (Associated).

"ZIEGFELD PONY GIRL" (word "Ziegfeld" disclaimed); for toilet articles not included in other classes (3). By Allied Plastics Co., 5225 Wilshire Boulevard, Los Angeles, California, U.S.A. B642,801.

Design including device of globe and the words "MELLOWES PLASTIC PRODUCTS" and "ALL OVER THE WORLD" (words "Mellowes" and "All over the world" disclaimed); for cosmetic powder boxes made of plastics (3) and combs, brushes, etc. (21). By Mellowes & Co., Ltd., Eclipse Works, Corporation Street, Sheffield, 3. 647,374-76 (Associated).

"AMBRENNIA"; for toilet preparations (not medicated), cosmetic preparations, soaps, perfumes, essential oils, hair lotions and dentifrices (3). By Ambresil, Ltd., 31 East Parade, Harrogate, Yorks. 647,678.

"PROLENE"; for preparations (not being disinfectants) for cleaning lavatories (3). By Beacon Products, Ltd., 25 Grant Street, London, N.1. 647,782.

"OLD RECTORY"; for soaps, perfumes, essential oils, toilet preparations (not medicated), cosmetic preparations and dentifrices (3). By James Scott St. Barbe Baker, 41 Boleyn Road, Dalston Junction, London, N.16. 648,231.

1947

August 2, 1947

THE CHEMIST AND DRUGGIST
SUPPLEMENT

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PER **9/-** DOZ

Plus Purchase Tax $\frac{1}{6}$ th.

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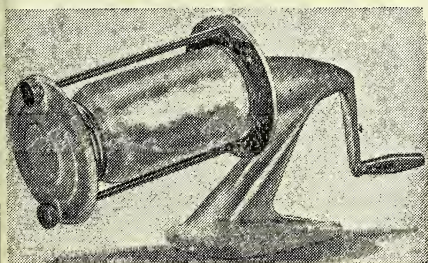
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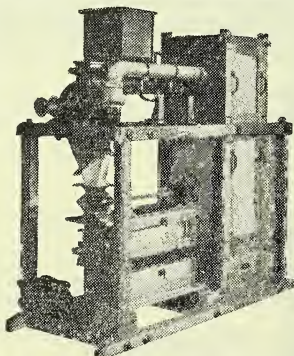
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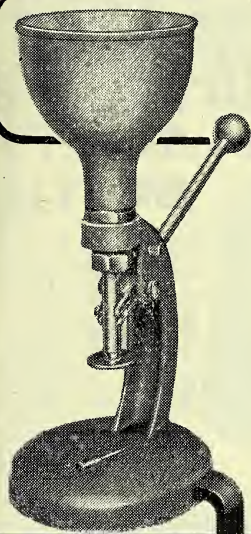
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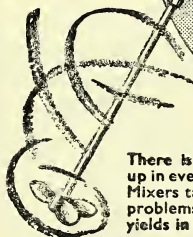
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Two piece boxes made of
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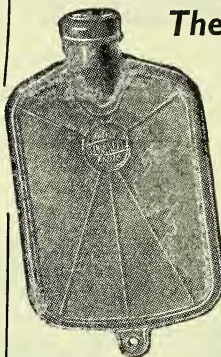
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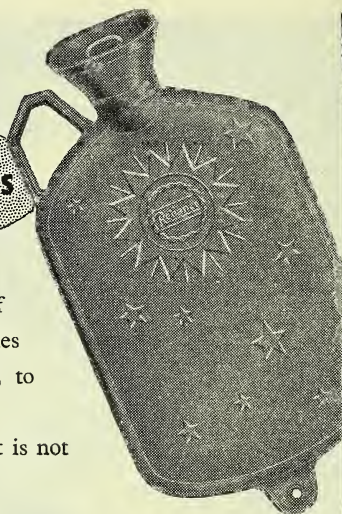
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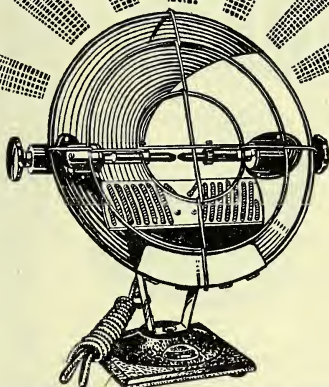
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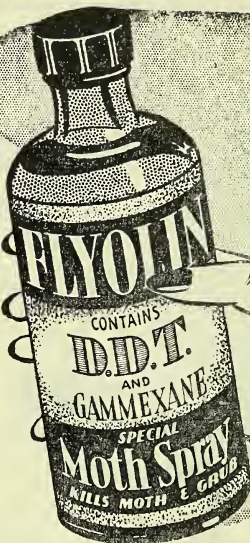
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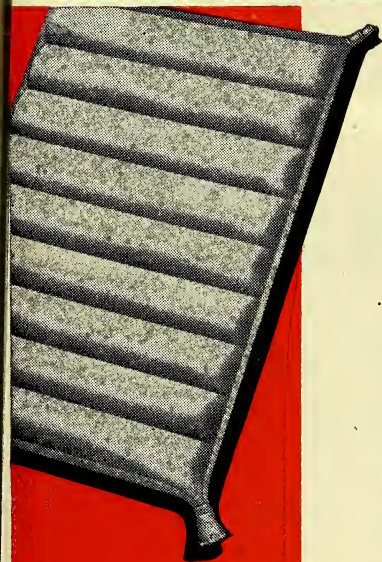
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HERBAL LICORICE TABLETS

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FOR COUGHS, COLDS,
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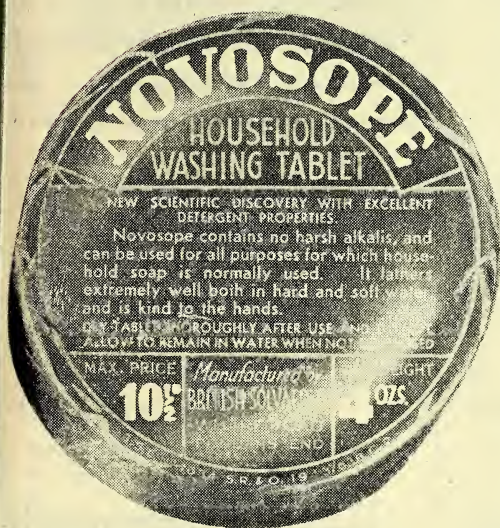
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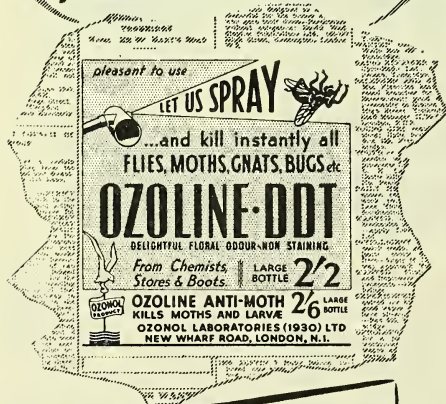
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ANTI-MOTH
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says 'TIBS' the
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'KUMFEX' SOLUBLE

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Firms are invited to send Price Lists, Medical literature, etc., when they can be advised as to which of their specialities could be accepted by the Authorities for sale in the Polish Market.

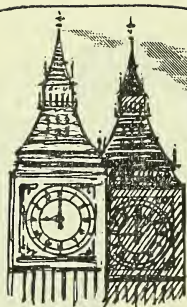
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There are more fretful babies today, because there is less Nurse Harvey's available due to the bottle shortage. Let us know if you are not getting your fair share.

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48 HOURS A DAY

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FEED TEATS & VALVE

Grovewell soothers are also now available.

Wholesale only supplied

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Can you spot the GREYFACES?

Of course they're everywhere—tired looking, depressed people, their energy sapped by queues, worry, strain, hurry. How about YOU? Don't be just so-so. VITAL FORCE won't let the punishing tempo of modern, high-pressure living get you down!

THEY NEED A COURSE OF
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Little-known Limericks—No. 36

A chemist who'd given up smoking
Found his customers extra provoking,
But he always could grin
When the Brand's man looked in.
This is perfectly truthful—no joking !

We fully sympathize with retailers in their difficulties today. We, too, have our own problems—chief of these, shortage of ingredients and containers for making and packing these popular products that are "made by the makers of Brand's Essence." By dealing with our customers strictly in rotation, and on an absolutely fair quota basis, we do our utmost to help you to keep up with the demands of your customers.

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WITH A 40 YEARS' REPUTATION

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"RENOLDS"
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Both available in display
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All shades. Two sizes only at present. Retail prices 2/6. and 4/10 (including Purchase tax).



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BC 20

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As the actual manufacturers of fine toilet papers we are in the position to state that it is mainly due to the shortage of *suitable* raw material. Paper can of course be made from any grade of "scrap" but the types of material suitable for our Toilet papers are strictly limited.

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The softest Toilet Tissue known made entirely from purest pulp. Note—the whole production of Andrex goes to the home market—none is exported.

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STANEX
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Absorbent
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11d.
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FAMOUS FOR OVER 80 YEARS

PATA.

FENNINGS' CHILDREN'S POWDERS **1/3, 3/-, 5/-, 12/-**

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For Coughs, Colds, Bronchitis, etc. **1/3** and **3/-**. Also **6/-** Carton
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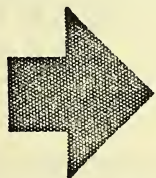
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FLOWER
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Give your Beauty and Toilet preparations that 'essential' touch of Quality. Add Preemo Perfume Essences—they are used by almost every Manufacturer and Chemist of repute. Preemo Perfume Essences impart the natural fragrance of the fresh-picked flower, thus making your preparations delightfully attractive. You will find Preemo Essences easy to use, economical, and pure. Thus Preemo has won fame as—

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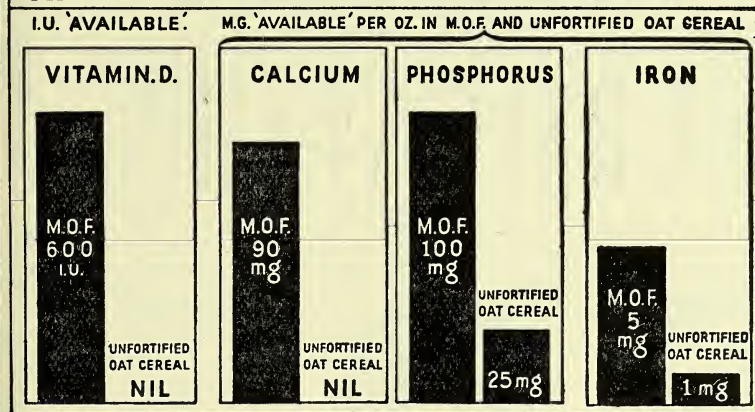


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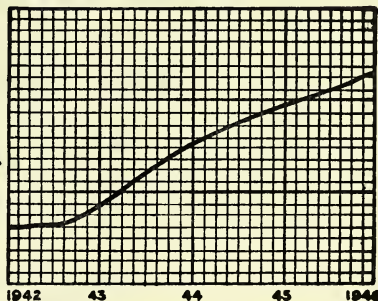
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MIDLOTHIAN OAT FOOD—PREPARED BY A. & R. SCOTT LTD.,
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SEROCALCIN



*for the prevention
and treatment of*
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THE DEMAND FOR THIS SUCCESSFUL AND MUCH
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The CHEMIST AND DRUGGIST SUPPLEMENT



This Supplement is inserted in every copy of the Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

AUGUST 2
1947

evailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 2/- extra.

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RADDOCK & BAGSHAW, LTD., 37/39, Yorkshire St., Oldham, have vacancy for energetic enthusiastic manager (permanency) in pleasant district. Good salary and commission. Early interview desired.

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ESSEX (near London). Qualified manager for busy working-class business. Must be good organiser, able to control stock and staff. Hard work and good pay. Excellent prospects. Apply, Box 24, C. & D. Office.

ARROW. Pharmacist manager required for a good-class branch of progressive concern. Home flat available over shop. Apply with full particulars to Mr. Godfrey, John Harley, Ltd., 196 Station Road, Edgware, Middlesex. EDGware 4674.

HOLBORN. Lady assistant required mainly for counter in busy high-class pharmacy, permanent position. Apply Manager, c/o A. R. Cross (North London), Ltd., 240 High Holborn, London, W.C.1, phone HOLborn 7379 for appointment.

HOLBORN. Unqualified assistants, ladies and gentlemen, wanted for high-class City/West-end type pharmacy. Apply by letter, or phone for pointment, to Manager (J. Milner), A. R. Cross, 240 High Holborn, W.C.1. Hol. 7379.

OCKHURST LANE, Co-operative Society require qualified male or female assistant for central pharmacy; permanent progressive position; 40-hour week; no Sunday or holiday duty; good salary offered; superannuation scheme in operation. Apply, stating age, experience, to Superintendent Pharmacist, 376 Foleshill Road, Coventry.

LONDON, W.9. Experienced pharmacist urgently required to manage a busy working-class pharmacy in West London. Brisk counter and Health Insurance dispensing. Good salary. Living accommodation available nearby. Apply 1/520, C. & D. Office.

LONDON Co-operative Chemists Ltd., require several relief managers for ultimate establishment as branch managers, with full participation in the superannuation scheme and other benefits, etc. The vacancies call for professional, as well as commercial knowledge. Applicants who are interested should write in first instance, to Superintendent Chemist, 54 Maryland Street, Stratford, E.15.

MANAGER required for first-class branch by small multiple organisation. Prospects and promotion are assured to the right applicant. In this instance there is suitable living accommodation. 1/463, C. & D. Office.

NORTH LONDON. Capable man or woman required to manage a drug store in North London; must be experienced in the chemist business, and able to maintain high-class appearance and trade. Apply Box 1/362, C. & D. Office.

ORRIDGE & CO., Employment Agency, 184 Strand, W.C.2, Temple Bar 9212/3. Branches at Southampton and Birmingham. Enquiries invited from all employers seeking staff. Many pharmacists and unqualified assistants available for retail and wholesale. Representatives also requiring situations. Reasonable terms. Write to 184 Strand, W.C.2 for particulars.

PHARMACIST, with optical qualification preferred, required for busy market town pharmacy. Excellent prospects and permanency. House available shortly. State age and salary required. Brownlow, Chemist, Melton Mowbray.

PHARMACIST required for a West End business. Elderly, provided he is active, not objected to, or young pharmacist requiring West End experience would suit. Apply 1/511, C. & D. Office.

PHARMACISTS. Applications are invited from qualified chemists to act as branch managers in Ayrshire and Glasgow districts. Good wages and conditions, with entry into superannuation fund after initial period of service. Apply in writing, giving full particulars of age, experience and when free, to The Technical Supervisor, Scottish Co-operative Wholesale Society, Ltd., Retail Drug Department, 187 Bogmoor Road, Shieldhall, Glasgow, S.W.1.

POPLAR. Manager, qualified, required for busy pharmacy in Poplar. Good salary offered to energetic man with experience. Permanency with good prospects. Apply 1/523, C. & D. Office.

QUALIFIED manager required for good-class family dispensing business in residential area of Wimbledon, Surrey. Permanent appointment; no living accommodation. Good salary. Apply. 1/525 C. & D. Office.

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TIMOTHY WHITES & TAYLORS invite applications from pharmacists for vacancies as qualified managers and assistants for branches in all parts of the country. Good conditions of employment are offered including a superannuation scheme, and there are excellent prospects for any pharmacist with ability and energy to make a successful career with the company. Convenient interviews will be arranged to suit applicants. Letters of application, stating district preferred (if any), should be addressed to Retail Staff Manager, (Drug), Timothy Whites & Taylors, 70 Vauxhall Bridge Road, London, S.W.1.

TORQUAY. Experienced lady dispenser required for good middle-class pharmacy. Experience in window dressing an advantage. Saturday half-day closing. Apply, Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Road, London, S.W.1. Phone Victoria 2204.

UNQUALIFIED dispenser assistant (preferably single) to assist head dispenser required immediately. Previous experience essential. Please send full particulars in first letter, Hickman & Metcalf, Ltd., Market Place, Newbury.

VICTORIA. Branch manager required for mixed class pharmacy within 10 minutes of Victoria Station. Permanent appointment. Good salary. Saturday half-day. Apply 1/521, C. & D. Office.

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YOUNG, unqualified assistant required. Counter and dispensing. Pleasant family business. Usual particulars and salary required in first letter please. Geo. Crawford, Chemist, Station Road, Horley, Surrey.

RETAIL (OVERSEAS)

SOUTHERN RHODESIA. Qualified chemist required immediately for good-class business in healthy town. Write, with full particulars, to Mitchell, 24 Mayfield Place, Aberdeen.

LOCUMS WANTED

MID-SUSSEX. Locum required from August 11. Single accommodation available. Permanency if suitable, with partnership arrangement (accommodation can be offered). Telephone Royal 1431, reference PGR, or write, with full details, salary required, etc., 1/510, C. & D. Office.

WHOLESALE

APPLICATIONS are invited from (a) Experienced representatives to call on registered pharmacists only. (b) Young pharmacists or unqualified assistants with a good knowledge of the trade for training as representatives. Thomas Robinson, Manufacturing Chemists, Ltd., Boundary Works, Boundary Street East, Manchester, 1.

AGENTS (commission) required for sale of packed hair cream to chemists and stores. Please state area covered and terms required. 1/490, C. & D. Office.

AN office manager required by a well-known progressive firm of manufacturing chemists in London area. Excellent prospects for a keen and energetic man aged about 35. Write in confidence, with details of past career and present salary. 1/436, C. & D. Office.

ANALYST required with experience in drugs and pharmaceuticals. London area. Write giving full particulars. Box No. GA.252, 4/7 Salisbury Court, Fleet Street, E.C.4.

ASSISTANT to director required by firm of manufacturing chemists, London. Opportunity for keen man aged 27-35 able to deal with queries and experienced in buying of raw materials and containers, checking advertising "copy," etc. Apply with full details of previous experience, present salary, etc., in confidence, to 1/437, C. & D. Office.

ASSISTANT librarian required by prominent chemical manufacturers. Male or female, age under 30. A qualification as pharmacist or a degree in chemistry or biology is required; experience in similar position would be an advantage but is not essential. Good reading knowledge in French and/or German preferable. The duties include abstracting medical and technical literature, compiling bibliographies, cataloguing and indexing. The position is permanent and offers a sound opportunity for a young candidate entering upon a career. Apply initially in writing giving full details of education, qualifications and experience, and quoting Ref. No. 497, to: Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

ASSISTANT managers for home trade and export required by leading wholesale company with offices in West End dealing in chemicals and drugs—applicants preferred who have recently qualified. Apply 1/459, C. & D. Office.

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B.D.H. have a vacancy in their sales control department for an unqualified chemist's assistant with the working knowledge of chemical terms. Neat handwriting essential. Write, Box 768, c/o Dorland, 18/20 Regent Street, S.W.1.

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COSMETICS. Reputable manufacturers with well advertised and established lines in the medium-sized class require live representatives for the following areas: Nottinghamshire, Leicestershire, Lincs., Rutlandshire. Warwickshire, Staffordshire, Shropshire, and Oxfordshire. Essential qualifications; good education, well-groomed appearance, and address, car owner and a live connection among chemists, departmental stores and good-class hairdressers. Salary, commission and expenses or commission only basis if desired. Reply, giving particulars of past history and present connections, to Box 101, Forster Wright Services, Hanover Square, London, W.1.

DRUGS counter hand (male) wanted for wet counter. Union rate of pay, 5-day week. Southall Bros. & Barclay, 1935, Alum Rock, Birmingham.

EXCEPTIONAL opportunity offered to representatives possessing genuine sales ability and initiative for sale of new and extremely attractive products to chemists and ladies' hairdressers on generous commission basis. Repeat business assured. Only representatives possessing above qualifications need apply. Write in confidence, stating territory covered, lines (if any) at present carried and whether car owner, to Box PW 302, Deacon's Advertising, 36 Leadenhall Street, E.C.3.

EXPORT. An opportunity presents itself for a person with experience and knowledge of overseas markets for the export of chemicals and drugs, in bulk or packed. Write in first instance, with full details, to P. A., 1/530, C. & D. Office.

EXPORT manager wanted to handle fine and aromatic chemicals. Previous experience an advantage but not essential. Please apply in writing to Box 904, c/o George Murray (Advertising), Ltd., 4 Strand, London, W.C.2.

LABORATORY worker required, used to tinctures and galenicals in general. 5-day week. Union rate of pay, Southall Bros. & Barclay (1935), Ltd., Alum Rock, Birmingham.

LIVE representatives wanted for Scotland and Wales, calling on stores, chemists and hairdressers, for high-class perfumery and cosmetics. Must have proved connections and sales record. Box 1, C.P.N., 185 Fleet Street, E.C.4.

MANUFACTURERS of the most attractive range of pharmaceutical specialties invite applications for following territories:—(A) Scotland. (B) Wales. (C) Durham, Northumberland, Cumberland, Westmorland. Sole agencies on generous commission terms to selected applicants. Only thoroughly reliable and conscientious salesmen, with established retail and wholesale connections, able to produce indisputable references, will be considered. Existing accounts transferred. Write in confidence to Sales Manager, stating age, experience, lines carried, if car owner. 1/513, C. & D. Office.

MANUFACTURERS of nationally advertised cosmetics require traveller calling on hairdressers and chemists, London and suburbs. Generous commission and travelling expenses paid. 1/491, C. & D. Office.

MANUFACTURING chemists in North London require woman pharmacist as second assistant in the dispensing and light manufacturing department. Salary according to age and experience. Write Box 552, Dorland, 18 Regent Street, S.W.1.

MANUFACTURING chemists, N.W. London, require the services of an energetic and experienced pill maker, capable of taking control. Write, giving details of age, experience and salary required. 1/486, C. & D. Office.

MANUFACTURING chemists, (West London), have vacancy for tablet maker; must be fully conversant with running and maintaining of single and single punch machines. Progressive and permanent position. Write 1/414, C. & D. Office.

OLD-ESTABLISHED London firm wholesale distributors, perfumery, cosmetics, etc., require representatives for following territories, Lancs, Cheshire, North Wales, West Midlands, Home, South and South-Eastern Counties. Must have good connections with chemists, stores, hairdressers. Liberal commission offered. 1/515, C. & D. Office.

OLD-ESTABLISHED London firm wholesale chemists' sundriesmen require representatives having live connection, chemists, hairdressers, etc. Car an advantage. Write, stating area covered and other details. 1/498, C. & D. Office.

RECEPTIONIST (female) familiar with drug trade, required for London office, W.1, by well-known Southern firm. Must be capable of dealing with enquiries by telephone. 1/495, C. & D. Office.

REPRESENTATIVES required for propaganda to doctors, etc., in Glasgow, and Northumberland and Durham areas, by manufacturers of high-class ethical proprietaries. Write in fullest detail, to Box 883, Potter's Advertising Offices, Aldwych House, Aldwych, London, W.C.2.

REPRESENTATIVES required throughout the country calling on chemists and allied trades. Salary, commission and expenses, or commission only. Please send full details of career and territory covered, to Downings, Plane Street, Oldham.

REPRESENTATIVES required for Novo-Sope for various areas. Write Box C 798, c/o Streets, 110 Old Broad Street, E.C.2.

REPRESENTATIVES required with established connections with retail and wholesale chemists, drug stores, etc., to obtain orders for all classes of medical printing, labels, small cartons, leaflets, stationery, etc. Good commission offered. Knowledge of trade unnecessary. Norman Fenton & Sons, Ltd., The Medical Printers, Universal Printing Works, Waterloo Road, Leeds, 10.

REPRESENTATIVES required throughout Great Britain to represent reputable toilet and cosmetic concern. Generous wage and commission basis. Must have good connections amongst chemists and stores. Reply, stating territory covered, to United Chemists' Supplies, 110 Donegall Street, Belfast.

REPRESENTATIVES required by London wholesale firm distributing to retail chemists, etc. Vacancies in (1) Lancs and Yorks. (2) Sussex, Hants, Wilts, and Dorset. (3) Wales and (4) S.W. England. Own car an advantage. Salary, commission, expenses, etc. Apply 1/526, C. & D. Office.

REPRESENTATIVES required by old-established firm of essence manufacturers for the Midlands and South Wales. Replies, giving particulars of experience, etc., in strict confidence, to 1/517, C. & D. Office.

REPRESENTATIVES required to sell Helsa triple gloss hair cream, containing special vegetable oils. Liberal drawing account. Prompt delivery. Free advertising for retailers, and gift scheme for assistants. Send details, age, territory, connection, etc. Davies & Long, Limited, 40 Sackville Street, London, W.1.

REQUIRED in laboratory of manufacturing chemists, girl with some experience of filling glass ampoules. Apply 1/425, C. & D. Office.

SALESMEN. Must be first-class, with strong connection best type chemists, stores and ladies hairdressers, to introduce high-priced range biological beauty products, supported by appropriate presentation and publicity. Straight commission or salary, expenses and commission. 1/493, C. & D. Office.

SALESMAN-Representative (with car) to sell to retail/wholesale chemists and hospitals. Chemical background desirable. Required for: (1) Yorkshire, (2) Midlands, (3) Scotland. Salary, car allowance, expenses and commission. Send full details, experience, age, etc., with first letter, 1/411, C. & D. Office.

TABLET machine operator. A vacancy exists with a leading house of pharmaceutical manufacturers located in North-west London for a skilled tablet machine operator with proved experience on rotary plant operation. Applicants should be prepared to do night work on rota. Basic rate of wages £2s. a week for a 46-hour week. 1/528, C. & D. Office.

TABLET maker. Experienced man required London, N.W. district (5-day week). Knowledge of granulating, use of single punch also rotary machines. Permanency. Write, stating age, experience and salary required. 1/487, C. & D. Office.

THE BRITISH DRUG HOUSES, LTD., have vacancies for young pharmacists (male) in their production laboratories and technical information department. Apply Personnel Manager, (Ref. A), B.D.H., Ltd., Graham Street, City Road, N.1.

WANTED. Salesmen calling on Chemists, hairdressers and stores to handle additional line on generous commission terms. Write 1/410, C. & D. Office.

WANTED by manufacturing chemists N.W. London area, experienced counter hand as assistant foreman, preferably accustomed dangerous drugs. Used to figures. Capable of controlling small staff if required. Details as to age, experience and salary required to Box 553, Whites, Ltd., 72/78 Fleet Street, London, E.C.4.

WORKS chemist required. Newly qualified candidates suitable, but experience in manufacture advantageous. Permanent appointment with increasing opportunities. Applications should be made in writing, giving full details, salary required, etc., to Managing Director, Howard Taylor, Ltd., 94 Balham High Road, London, S.W.12.

WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large company operating in the Middle East. Will be employed either on development or process work and should be prepared initially to undertake shift work on process plant; should possess B.Sc. degree and preferably have had subsequent industrial experience. Age not over 30. Single men preferred. Starting salary not less than £500-£600 p.a. according to qualifications, together with a generous allowance in local currency, also free furnished bachelor accommodation, free passages out and home; free medical attention; kit allowance; provident fund benefits. Applicants must be of full British parentage and should write stating age, qualifications and experience, to Dept. F.18, 162/462, C. & D. Office.

MANAGER required for a pharmaceutical and cosmetic manufacturing business in Australia, well-established and growing, strong financial position. Candidates should have good experience of manufacturing, advertising, medical promotion, sales, administration, costing and accountancy. They must have demonstrated business judgment and qualities of leadership likely to bring success with Australians. Write full particulars, marked "Australia, Confidential" to Messrs. McKenna & Co., Solicitors, 12 Whitehall, S.W.1.

PLANT chemists urgently required for process plant operations by large company operating in the Middle East. Applicants need not be graduates but should have had a chemical training up to Inter B.Sc. or National Certificate Standard with experience of shift work in either a gas, coke oven or chemical works. Age not over 30. Salary sterling between £540 and £600 per annum plus generous allowances in local currency, with free furnished bachelor accommodation, passages out and home, medical attention, also kit allowance and provident fund benefits. Apply stating age, qualifications and experience, etc., to Dept. F.22 162/461, C. & D. Office.

SINGAPORE. Chemical and pharmaceutical manufacturers of international repute invite applications from qualified pharmacists for the position of assistant in their Singapore Branch Office Age 24-26, single. The duties will involve a certain amount of travelling. This is an outstanding opportunity for a young man wishing to enter a career with excellent prospects. Apply, giving full details of education, qualifications and experience, quoting reference number 498 and enclosing a photograph if available, which will be returned. 1/431, C. & D. Office.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word

RETAIL (HOME)

STOCKTAKING. Quiet and efficient workman-ship. Over 30 years' practical experience. Personal supervision. Chemists' own sheets priced. C. W. Playfoot, 8 Aylward Road, Merton Park, S.W.20. Tel. Liberty 4104.

LOCUMS SEEKING ENGAGEMENTS

LOCUM, aged 50, free for engagements from August 20, desires to make high-class clientele, North London district or West End. 1/428, C. & D. Office.

WHOLESALE

FIRST-CLASS salesman with top line executive ability, age 36, wishes change. Must be a position with good prospects. Unique opportunity for live company to secure energetic man with wide and unusual range of talent. Box 1/514, C. & D. Office.

SALES manager, perfumery, cosmetics, toilet preparations, age 37, seeks change. Desires progressive position. 20 years' experience in trade. Thorough knowledge of export trade. Very good connections. Willing to travel anywhere to investigate conditions and promote sales in export markets. Write 1/505, C. & D. Office.

APPOINTMENTS

BRADFORD ROYAL INFIRMARY (498 Beds)

Applications are invited for the post of **ASSISTANT PHARMACIST, J.N.C.** Scale of salaries, according to experience. Federated Superannuation Scheme in force.

Applications, giving age, qualifications and full experience, together with copies of recent testimonials should be sent to the House Governor and Secretary.

BROMPTON HOSPITAL, S.W.3

Applications are invited for the post of Assistant Pharmacist.

Salary in accordance with the recommendations of Joint Negotiating Committee. Federated Superannuation Scheme in force.

Applications, stating age and previous experience, and accompanied by copies of three recent testimonials, must reach the undersigned not later than Saturday, 16th August.

F. G. ROUVRAY, House Governor.

**DORSET COUNTY HOSPITAL
DORCHESTER**

(VOLUNTARY HOSPITAL 120 beds)

Applications are invited for the position of PHARMACIST (singlehanded). The successful applicant will be responsible for the buying and general organisation of the Dispensary. Salary in accordance with the recommendations of the J.N.C. Applications, giving full details of training and experience, accompanied by copies of two recent testimonials, should be sent to the Secretary-Superintendent on or before August 18, 1947.

**ESSEX COUNTY HOSPITAL,
COLCHESTER**

Applications are invited for the post of ASSISTANT DISPENSER, male or female. Hall qualification. Salary £270-£320. Applications with copies of testimonials should be sent to the Secretary.

**KENT COUNTY COUNCIL
ASSISTANT PHARMACIST**

Applications are invited for the following appointment at the County Hospital, Sevenoaks Road, Orpington:—

Assistant Pharmacist (M.P.S. or Ph.C.) either sex. Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience, and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,
Clerk of the County Council.

County Hall,
Maidstone.
July 4, 1947.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for REDHILL COUNTY HOSPITAL, Edgware, Middlesex. J.N.C. (Hospital Staffs) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to three recent testimonials to MEDICAL DIRECTOR, of Hospital, by 16th August. No forms. (Quoting C 369 CD.)

C. W. RADCLIFFE,
Clerk of the County Council.

Middlesex Guildhall,
S.W.1.

LONDON COUNTY COUNCIL

PART-TIME ASSISTANT PHARMACIST required for duty at:—

Leavesden Hospital, Abbot's Langley, Herts;
Tooting Bec Hospital, Tooting Bec Road,
S.W.17; and
St. Lawrence's Hospital, Caterham, Surrey.

Candidates must be Registered Pharmacists. Salary, five shillings an hour for a maximum of 21 hours a week. Apply to Medical Superintendent. (2467.)

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlesex (Registered essential), J.N.C. (Hosp. Staffs) salary, £370 inclusive; annual increments up to £450 p.a. considered. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment; subject to medical examination. Application stating age, quals., exper., with copies of up to 3 recent testimonials to MEDICAL DIRECTOR at Hospital, IMMEDIATELY. No forms (quote C 292 C D).

C. W. Radcliffe,
Clerk of the County Council.

Middlesex Guildhall, S.W.1.

**MOORFIELDS, WESTMINSTER AND
CENTRAL EYE HOSPITAL,
CITY ROAD, E.C.1**

First Assistant PHARMACIST required. Hours 8.30 a.m. to 4.30 p.m., Saturdays 1 p.m. Salary as Joint Negotiating Committee (£415—£490). Federated Superannuation Scheme in force. Applications with full details of experience etc., and copies of testimonials to be sent to the Chief Pharmacist.

**QUEEN MARY'S HOSPITAL
FOR THE EAST END,
STRATFORD, LONDON, E.15****APPOINTMENT OF SENIOR ASSISTANT
PHARMACIST**

Applications are invited for the post of Senior Assistant Pharmacist (male) with salary according to J.N.C. Scale (£415 x £15 to £490). Experience will be taken into account in determining the commencing salary within this scale. Pension Scheme in force. Applications with full particulars and copies of testimonials to be sent to the House Governor and Secretary as soon as possible.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required at:—
EPSOM COUNTY HOSPITAL, Dorking Road, Epsom and St. Luke's County Hospital, Guildford.

Commencing salary on grade £370 x £15—£430 x £20—£450 p.a. inclusive. Applications in writing stating age, qualifications and experience with a copy of not more than three recent testimonials should be sent to the Medical Superintendent of the Hospital.

**THE LONDON CLINIC,
149, HARLEY STREET, LONDON, W.1**
ASSISTANT PHARMACIST REQUIRED
Hospital experience not essential. Salary in accordance with J.N.C. scale. Applications, stating age and experience, should be sent to the CHIEF PHARMACIST.

THE ROYAL TECHNICAL COLLEGE, GLASGOW

DEPARTMENT OF PHARMACY

Applications invited for post of Demonstrator. Degree in Pharmacy essential. Facilities provided to work for higher degree. Salary not less than £300. Form of application obtainable from Secretary.

UNIVERSITY COLLEGE HOSPITAL, GOWER STREET, LONDON, W.C.1

Applications are invited from Pharmaceutical Chemists for the appointment as Chief Pharmacist to the Hospital and as Teacher in Pharmacy in the Medical School. Candidates should preferably possess a degree in Pharmacy or Chemistry and have had administrative and teaching experience. A record of pharmaceutical research will be an advantage.

The inclusive salary is at the rate of £900 per annum rising by six annual increments of £50 to a maximum of £1,200 per annum. The Federated Superannuation Scheme is in force. Applications, giving full details of age, qualifications and experience, together with copies of two recent testimonials and the names of two referees should reach the Secretary not later than August 31st, 1947.

AGENCIES

12/6 for 36 words or less, 3d. for every additional word

A GENT required for Lancashire area to handle medicinal line. Must have good connection with retail and wholesale chemists. Good commission for life applicant. Car owner preferred. Send full particulars to 1/270, C. & D. Office.

AGENCIES REQUIRED IN PAKISTAN FOR PHARMACEUTICAL, CHEMICAL

AND TOILET PRODUCTS MANUFACTURED BY BRITISH FIRMS. Write, 1/497, C. & D. Office.

A GENT required in this country for execution and despatch of orders for patent medicines well known in India. Commission basis. 1/407, C. & D. Office.

A GENT, with strong connection export and shipping houses, to introduce high-priced range biological beauty products, supported by appropriate presentation and publicity. 1/494, C. & D. Office.

F RENCH laboratory seeks British manufacturers who would undertake to manufacture and sell its products in U.K. and British Empire. Write M. Hédout, 76 Cambridge Street, London, S.W.1.

I MPORTANT Italian society, technically organised for import, publicity and sale of pharmaceutical products, desires sole agencies in Italy of important specialities of serious scientific value. Write 1/529, C. & D. Office.

M EDICINAL Herbs and Drugs. Belgian firm requires well introduced agent calling on chemists, druggists, wholesale and manufacturer houses in order to sell their products, crude and manufactured. Replies to 1/519, C. & D. Office.

N ORTHEN Ireland's leading toilet and cosmetic wholesalers, supplying chemists only, require further reputable lines. Open to consider sole representation for house of repute. United Chemists Supplies, 110 Donegal Street, Belfast.

S OLE agency required for India, Burma and Ceylon (population over 400 millions) for product saleable through chemists, druggists and provision stores. Large sales organisation and ample godown facilities. Connections with over 30,000 doctors and hospitals. Full particulars to 1/306, C. & D. Office.

BUSINESS OPPORTUNITIES

12/6 for 36 words or less, 3d. for every additional word

I RISH representative. Experienced, Steady, conscientious worker. P.h.C. Smart appearance. Good address. Well introduced retail/wholesale in Eire. Seeks representation reputable firm for Southern or Northern Ireland. 1/419, C. & D. Office.

M ANUFACTURING chemist requires firm to undertake distribution small quota inexpensive perfumes. 1/507, C. & D. Office.

M ANUFACTURING chemists are able to undertake packing, filling and despatch in small or large quantities. Please write, 1/492, C. & D. Office.

N ATION-WIDE sales organisation with remarkable record of successful merchandising is open to consider one or two lines. Only branded lines offering possibilities of big permanent business are of interest. Box S.551, c/o Erwoods, Ltd., 211 Piccadilly, London, W.1.

N EW lines improved formulas and other laboratory service is available to a progressive manufacturer with sales organisation. Write 1/509, C. & D. Office.

T ABLET-MAKING. We have some surplus capacity. Reduced charges during summer. Packed or bulk. Also packing undertaken for the trade. Prompt and efficient service. 1/502, C. & D. Office.

T OILETS quota (large or small) will be purchased by advertiser. Please state amount for sale and price for outright purchase. 176/942, C. & D. Office.

W HOLESALERS interested in perfumery, cosmetics, etc., made by old-established firm are invited to get into touch with advertisers, who offer keenest prices and discounts. 1/516, C. & D. Office.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word

H ERBAL, hygienic stores, large corner position, in busy main road. Owner going abroad. For quick sale, £2,500, stock, fixtures and fittings. Living accommodation, garage etc. First deposit secures. 19 years on lease to go. Apply Horsenail & Son, Ltd., 112 Bellegrave Road, Welling, Kent, or phone Bexleyheath 3864.

M ANUFACTURING chemists, Leeds. Audited net profits £1,000 p.a. Wide area covered, specialising bronchial tablets, pain easing tablets, eye lotion, etc. Reg. Trade Marks. Business, large stock, equipment, furnishings, etc., all in £4,000. Ask Henry Stead & Partners, Ltd., 29 Cookridge Street, Leeds, 2. Phone 23342.

ORTH DEVON. For immediate disposal. Old-established dispensing and family business. All and leading toilet-agencies. Centrally situated in main street. Leasehold. Turnover £5,000 annum. Sound reasons for disposal. £4,500 s.a.v. or reasonable offer. 1/527, C. & D. Office.

KE-ON-TRENT. Chemist's business for sale. Well established. Main Road. No opposition. Fronted shop with good stock, splendid sales, and insurance dispensing. Offers over £100. Including property, with living accommodation with three bedrooms. Owner retiring. 1/6, C. & D. Office.

MISCELLANEOUS SALES

for 36 words or less, 3d. for every additional word

ESWAX. Genuine highest quality supplied in bulk direct from warehouse. Small orders at 1d. per lb. will also receive immediate attention. Delivery within seven days. Write 1/504, D. Office.

VE "Doulton" make cream glazed stoneware percolators, two gallon top and two gallon bottom section, 52/6 each. Fire ground-in Type A 1/2-inch, at 15/6 each. Never been used, but for export, order cancelled. Apply 47/49 Highway, London, E.1. Royal 3526.

R SALE, 50 gross 1-oz. tall jars, 22/- per gross, black enamel tops; also 2 and 4-oz. toilet bottles. V. C. Collier, 46 Haymild Road, Burnham, Bucks.

R SALE. 50 gr. 4 x 2 in. cardboard containers. New, with sprinkler tops, 12/- gross. Metal tie, Ltd., Glean House, Montague Close, London Bridge.

R SALE, 6 tons bisulphate of soda, £10 per ton in barrels, free, also carriage free. Firstlite, Glean House, Montague Close, London Bridge.

ERS wanted for the following plant: Manesty No. 3 machine, heavy duty, single punch (conditioned), with punches and die for new tablixer (new) with stainless steel pan, 16 in. x 14 in. x 3 ft. long, tilting motion for emptying and emptying; electric motor, 3 h.p., 3 phase, 1,430 revs., 1/2 of 2 in. shafting, roller bearings, also 5 cwt. phthaline. 1/500, C. & D. Office.

E Oil Sylvestris, 17s. 6d. lb. in 28 lb. lots. Write to Box 906, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

PLUS Senna. Offers wanted for approximately 24 cwt. pulverised-senna leaves and 9 senna pods, for immediate delivery. 1/508, D. Office.

PLUS technical white oil, Pool 30, B.P., colourless, at 9s. per gallon in 45-gallon drums. 10s. and carriage free. Write to 27 Thornlaw Road, West Norwood, London, S.E.27.

PLUS stock of 2 tons borax, 10 cwt. transparent varnish, assorted metal screw caps. 1/1, C. & D. Office.

WT. cananga oil, Java, to clear, also 56 lb. menthert oil. Offers to Box 905, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

GROSS 4 oz. oval ribbed bottles, metal screw cap, 37s. 6d. per gross delivered. 100 8 oz. ditto, 42s. 10d. per gross delivered. 50 6 oz. swan neck with screw caps, 46s. per gross delivered. 1/531, C. & D. Office.

WANTED

1/6 for 40 words or less, 2d. for every additional word

A BIG price offered for home cines, cameras, or projectors. Bell-Howell, Kodak, G.B., etc. Also Leica, Contax and other precision cameras. enlargers, exposure meters, etc. Prompt cash. Wallace Heaton, Ltd., 126-7 New Bond Street, London, W.1.

ACTIVELY interested in all your surplus machinery. Price given on inspection and immediate settlement if purchased. 1/474, C. & D. Office.

AUTOMATIC cream filler wanted at once; big price paid. Shavex Co., Bavaria Road, Hol-loway, N.15.

BOTTLES wanted. 20-oz. and 26-oz. cordial or wine type. Please quote for small or large quantities, to A. E. Bevan, Ltd., 20a Hall Street, Southport, Lancs.

BOTTLES required, all sizes from 4 oz. to 1 gallon, and 1 to 5 gallon jars. Lots and regular supplies wanted. Send prices and quantities to 1/485, C. & D. Office.

GLYCERINE, B.P., required in any quantity by manufacturing chemists. Offers. 1/503, C. & D. Office.

GLYCERINE, B.P. or Pale Straw required in any quantity. Good price paid. 1/386, C. & D. Office.

GLYCERINE wanted, any quantities taken of B.P. quality. Cash by return. State quantity available and price required to 157/296, C. & D. Office.

MANUFACTURERS require supplies of glycerine B.P. If you have any surplus please offer to 1/402, C. & D. Office.

REQUIRED. Stearic acid and glycerine. Any quantity. Box 112, Pagan Smith Advertising, 5 Bold Street, Liverpool.

STEARIC acid triple pressed required in large quantities. 147/850, C. & D. Office.

STEARIC acid triple pressed block, also glycerine, soda bicarbonate and lactose B.P. required in bulk quantities for spot cash. 1/480, C. & D. Office.

TUBE filling machinery, suitable for tubes from 1/2 to 1 1/2 in. Advise price and condition in first instance. 1/501, C. & D. Office.

WANTED urgently. Stearic acid, all grades, any quantity. Samples and quotations to Harman Dietetic Laboratories, Limited, Cavendish Works, North Parade, Burnt Oak, Middlesex.

WANTED. Pomade jars, 1 1/2 oz., with or without caps; state quantities available. Samples and quotations to Hannetta, Ltd., Humber Road, London, N.W.2.

WANTED. 16-oz. bottles urgently required—all shapes considered. Duncan Bros., Wilson Road, Sheffield 11.

WANTED urgently. 10 gross each stoppered and C.M. 20 oz. bottles. Must be amber, win. shape. Good price paid. Reply 1/435, C. & D. Office.

26-OZ. and 13-oz. wine or champagne bottles required. 625/524, C. & D. Office.

EXPORT TRADE

WE offer for export: Acetic acid, ammonium chloride, aniline oil, aniline salt, white arsenic. 1/499, C. & D. Office.

SPARKLING Harrogate Health Salts



**THE
HEALTH
SALT—
PLUS!**

17/- per doz.
(Purchase tax 2/10)
Retail selling price
2/- (incl. tax).

32/- per doz.
(Purchase tax 5/4)
Retail selling price
3/9 (incl. tax).

Supplies are restricted but orders are dealt with in rotation. You are invited to apply for a quota to the

**Sole Selling Agents:
KORAY LTD.**

Koray House, 25 Hanover Square, London, W.1

Manufactured by
The Harrogate Tablet Co. Ltd., Harrogate

Betalax

THE BETTER
**CHOCOLATE
LAXATIVE**

RESTRICTED SUPPLIES
are now available
again . . . all who purchased
previously are automatically
granted a quota. Will you
please write and take it up?

Certain quantities have been reserved
for areas where our representation is
not complete. Will wholesalers please
write for supplies immediately?

Betalax "sixes." Wholesale 18/- per gross,
plus tax. Retail 2½d., inc. tax.

Betalax "fifteens."
Wholesale 45/- per
gross, plus tax.
Retail 6d. inc. tax.

THE BETALAX CO.
25, HANOVER SQ.,
LONDON, W.1.

**CHILDREN LOVE THEM
— SO WILL YOU**



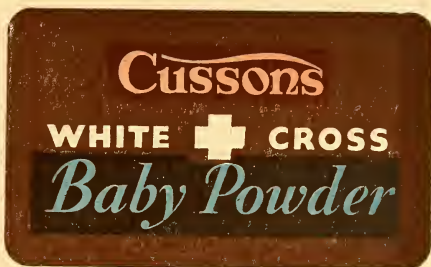
Pink for girls and *Blue* for boys!



and Bigger Sales for CHEMISTS

Cussons White Cross Baby Powder has now appeared in attractive post-war dress. Especially appealing to the modern mother are the alternative colour schemes — pink tins for girls and blue tins for boys, bringing colour and individuality back to the nursery.

NEW TERMS: 9/- per dozen retailing at 1/3 per tin incl. purchase tax at 16 $\frac{2}{3}$ %.



CUSSONS SONS & CO. LTD.

84 BROOK STREET, GROSVENOR SQUARE, LONDON, W.1.

A SPECIALIZED TECHNIQUE

developed by LONG EXPERIENCE



Arthur H. COX & Co. Ltd.

MANUFACTURING CHEMISTS

BRIGHTON

**An organization that can
see the whole job through -
MANUFACTURING & PACKAGING**